

20020306.qrp v02\_n486.qrl.20020306

Date: Wed, 6 Mar 2002 19:03:12 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2486

QRP-L Digest 2486

Topics covered in this issue include:

- 1) [121361] QRP items for sale  
by N4SKS@cs.com
- 2) [121362] Re: FS SASA  
by <n2go@arrl.net>
- 3) [121363] Re: Pc Boards Got em ! but No Knowledge  
by "ZOOM" <kandrparker@sympatico.ca>
- 4) [121364] Family Crisis, unable to be Fox tonight  
by Fred Lesnick <flesnick@tbaytel.net>
- 5) [121365] Re: Family Crisis, unable to be Fox tonight  
by "N3BJ" <alanfryer@msn.com>
- 6) [121366] RE: Early morning DX?  
by David Hinerman <wd8civ@worldnet.att.net>
- 7) [121367] FS qrp +solar  
by <n2go@arrl.net>
- 8) [121368] Re: Dave (K1SWL) does it again! Lets make 'im tell us all about it!  
by Junichi Nakajima <nakaji@crl.go.jp>
- 9) [121369] 160m anyone?  
by "ss lyon" <sslyon@megalink.net>
- 10) [121370] FOX -- Cub Fox KB7WW  
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
- 11) [121371] RE: FOX -- Cub Fox KB7WW  
by "Jason Nochlin" <jman0iin@attbi.com>
- 12) [121372] Re: Early morning DX?  
by "Rod N0RC" <rod@n0rc.com>
- 13) [121373] RE: Pc Boards Got em ! but No Knowledge  
by TheRubins <hrubin1970@comcast.net>
- 14) [121374] The Fox is Here Tonight - THANKS ART!  
by Lew Paceley <lew@paceley.com>
- 15) [121375] Re: Pc Boards Got em ! but No Knowledge  
by "ZOOM" <kandrparker@sympatico.ca>
- 16) [121376] Truffle 3/5/2002  
by k8cz@att.net
- 17) [121377] JAN QQ  
by DENNIS SMITH <ne4o@swbell.net>
- 18) [121378] Re: 160m anyone?  
by W0rw@aol.com
- 19) [121379] Fox K4FB Log v2.0

- by Paul Womble <pwomble1@tampabay.rr.com>
- 20) [121380] Open Line & Bal. Tuner -- Practical Designs  
by "Adrian Weiss" <aweiss@usd.edu>
- 21) [121381] Re: 40673's  
by Lew Paceley <lew@paceley.com>
- 22) [121382] Thanks For FOX time  
by Arthur Moe <kb7ww@easystreet.com>
- 23) [121383] small qrp tuner design needed with audio indicator  
by Gary Lee <kb9zuv@arrl.net>
- 24) [121384] FOX: Cub Fox problem  
by "Karl F. Larsen" <k5di@zianet.com>
- 25) [121385] RE: small qrp tuner design needed with audio indicator  
by "Kory Hamzeh" <kory@avatar.com>
- 26) [121386] Re: small qrp tuner design needed with audio indicator  
by brickle <brickle@pobox.com>
- 27) [121387] CUB FOX - Thanks Art!  
by "Gary O. Lyons" <drgary@urx.com>
- 28) [121388] OT: 'true RMS' measurement  
by "P.Ermisch" <ermisch@usa.net>
- 29) [121389] Re: QRP-10A Contacts  
by Junichi Nakajima <nakaji@crl.go.jp>
- 30) [121390] SOC Spring Marathon Sprint March 9  
by Bob Patten <n4bp@yahoo.com>
- 31) [121391] Re: Pc Boards Got em ! but No Knowledge  
by "Dave Fifield" <dave@redhotradio.com>
- 32) [121392] Re: Open Wire Line and Balanced Tuner  
by "Pastor-KC1DI" <elbc@pivot.net>
- 33) [121393] More on the 'Miracle Whip'  
by "Ray Goff" <radioham@gmx.co.uk>
- 34) [121394] RE: 'true RMS' measurement  
by Nick Kennedy <nkennedy@tcainternet.com>
- 35) [121395] Whither Bluesky Engineering?  
by David Beach <dbeach@blvl.igs.net>
- 36) [121396] Re: More on the 'Miracle Whip'  
by "Karl F. Larsen" <k5di@zianet.com>
- 37) [121397] Site for DL QRP kits  
by Tim ORourke <TORourke@KaiserFT.com>
- 38) [121398] F.S. Argosy II and 225 P.S.  
by "Greg Breeden" <gbreeden@pivot.net>
- 39) [121399] RE: 'true RMS' measurement  
by "Karl F. Larsen" <k5di@zianet.com>
- 40) [121400] Re: Open Wire Line and Balanced Tuner  
by "Karl F. Larsen" <k5di@zianet.com>
- 41) [121401] RE: small qrp tuner design needed with audio indicator  
by "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
- 42) [121402] QRP DX in the ARRL contest  
by "Brockwell, Stephen E. CECOM SEC FSSE ILEX" <brockwse@fssec.army.mil>
- 43) [121403] Re: Pc Boards Got em ! but No Knowledge

by Bruce Muscolino <w6toy@erols.com>  
44) [121404] Re: Pc Boards Got em ! but No Knowledge  
by Bruce Muscolino <w6toy@erols.com>  
45) [121405] Re: 40673's  
by Bruce Muscolino <w6toy@erols.com>  
46) [121406] RE: Pc Boards Got em ! but No Knowledge  
by "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>  
47) [121407] Re: More on the 'Miracle Whip'  
by "Walter AG5P" <walter@cowboy.com>  
48) [121408] Re: Pc Boards Got em ! but No Knowledge  
by Bruce Muscolino <w6toy@erols.com>  
49) [121409] RE: Pc Boards Got em ! but No Knowledge  
by Brad Mitchell <n8yg@yahoo.com>  
50) [121410] WA2HOQ de KA3POY  
by Timothy.Urban@wc.ey.com  
51) [121411] FOX: Fox Announcement for 03/07  
by Pat Cain <pcain@ix.netcom.com>  
52) [121412] Gerber  
by <jfox6@houston.rr.com>  
53) [121413] Need clearing up (TNX)  
by "Ingo, DK3RED" <dk3red@t-online.de>  
54) [121414] VE9QSL  
by Harris Keith E CONT CNIN <harris\_k@crane.navy.mil>  
55) [121415] Re: Pc Boards Got em ! but No Knowledge  
by Bruce Muscolino <w6toy@erols.com>  
56) [121416] Re: coax  
by Bill Coleman <aa4lr@arrl.net>  
57) [121417] Re: OT: 'true RMS' measurement  
by "George, W5YR" <w5yr@att.net>  
58) [121418] Re: Pc Boards Got em ! but No Knowledge  
by Steven Weber <kd1jv@moose.ncia.net>  
59) [121419] RE: Pc Boards Got em ! but No Knowledge  
by Steven Weber <kd1jv@moose.ncia.net>  
60) [121420] TenTec Corsair Filters  
by "Ham" <KD5NWA@mbayona.com>  
61) [121421] Re: Pc Boards Got em ! but No Knowledge  
by Brad Mitchell <n8yg@yahoo.com>  
62) [121422] Re: Pc Boards Got em ! but No Knowledge  
by David Hinerman <WD8CIV@worldnet.att.net>  
63) [121423] RE: Pc Boards Got em ! but No Knowledge  
by David Hinerman <WD8CIV@worldnet.att.net>  
64) [121424] Re: Pc Boards Got em ! but No Knowledge  
by Bruce Muscolino <w6toy@erols.com>  
65) [121425] Re: Pc Boards Got em ! but No Knowledge  
by Bruce Muscolino <w6toy@erols.com>  
66) [121426] FOX: KV2X Fox Announcement  
by Thomas Jennings <jennings@eznet.net>  
67) [121427] Re: Pc Boards Got em ! but No Knowledge

by Bruce Muscolino <w6toy@erols.com>  
68) [121428] RE: Early morning DX?  
by Bill Coleman <aa4lr@arrl.net>  
69) [121429] FS test equipment  
by <n2go@arrl.net>  
70) [121430] PCB etchant  
by Pete Burbank <plburbank@kih.net>  
71) [121431] Re: PCB etchant  
by "Brad Hernlem" <alihernlem@hotmail.com>  
72) [121432] Tiny-Tornado Kit Update  
by "Brice D. Hornback" <bdh@cyberbound.net>  
73) [121433] Ladder line vs. coax  
by "Stuart Rohre" <rohre@arlut.utexas.edu>  
74) [121434] FS Electroplater  
by <n2go@arrl.net>  
75) [121435] Re: FS: HW-99  
by Norm Melick <henmel@worldnet.att.net>  
76) [121436] FCC & ULS  
by "Tracy Markham" <tracy@bytemark.com>  
77) [121437] RE: Pc Boards Got em ! but No Knowledge  
by Philip L Carter <pcarter@gcfn.org>  
78) [121438] Re: Pc Boards Got em ! but No Knowledge  
by "John J. McDonough" <wb8rcr@arrl.net>  
79) [121439] Re: JAN QQ  
by "John J. McDonough" <wb8rcr@arrl.net>  
80) [121440] Ducie Island  
by "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>  
81) [121441] Fw: Proper Posting To This List  
by "Rob Matherly" <kc0bom@arrl.net>  
82) [121442] Re: Pc Boards Got em ! but No Knowledge  
by "ZOOM" <kandrparker@sympatico.ca>  
83) [121443] RE: Pc Boards Got em ! but No Knowledge  
by Mark Schoonover <schoon@amgt.com>  
84) [121444] Re: CUB FOX - Thanks Art!  
by Fred Lesnick <flesnick@tbaytel.net>  
85) [121445] Re: Pc Boards Got em ! but No Knowledge  
by John Wagner <john@wagner-usa.net>  
86) [121446] Re: FS test equipment  
by "Mike Melland" <w9wis@charter.net>  
87) [121447] Changing the Subject....  
by W2AGN <w2agn@pobox.com>  
88) [121448] Re: Changing the Subject....  
by "Rob Matherly" <kc0bom@arrl.net>  
89) [121449] Re: Pc Boards Got em ! but No Knowledge  
by Bruce Muscolino <w6toy@erols.com>  
90) [121450] RE: Pc Boards Got em ! but No Knowledge  
by "Kory Hamzeh" <kory@avatar.com>  
91) [121451] Re: Pc Boards Got em ! but No Knowledge

by John Wagner <john@wagner-usa.net>  
92) [121452] Re: Pc Boards Got em ! but No Knowledge  
by John Wagner <john@wagner-usa.net>  
93) [121453] Re: PCB etchant  
by Dave Richards <wr3i@earthlink.net>  
94) [121454] New project tins?  
by Majority Mike Capt 56 TRS/IP <mike.majority@luke.af.mil>

-----  
Date: Tue, 5 Mar 2002 19:06:52 EST  
From: N4SKS@cs.com  
To: qrp-1@lehigh.edu  
Subject: [121361] QRP items for sale  
Message-ID: <c5.1f164431.29b6b79c@cs.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I have a few QRP rigs and kits for sale . Serious inquiries please and I will  
send you a list. Thank You.  
72 Les K4NK

-----  
Date: Tue, 5 Mar 2002 14:25:47 -0500 (EST)  
From: <n2go@arrl.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [121362] Re: FS SASA  
Message-ID: <Pine.LNX.4.33.0203051423420.1367-1000000@valhalla.v>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sorry to reply to the list but there was a ton of people that expressed  
interest in the SASA. It has been sold without the scope.

It is a neat toy. If you see one available you should get one.  
73,

Jim n2go

On Mon, 4 Mar 2002 n2go@arrl.net wrote:

> I have a spectrum analyzer/scope adapter for sale. Built in a cast  
> aluminum box. It has BNC I/O connectors. The AC supply is built in and has  
> a ac input filter. You will need a computer type ac connector.  
> Nicely built (by me) with teflon wire and Coax (of course)  
> With documentation.

> \$80.

>

> 73,

>

> Jim n2go

>

>

-----  
Date: Tue, 5 Mar 2002 19:15:29 -0500

From: "ZOOM" <kandrparker@sympatico.ca>

To: <w6toy@erols.com>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [121363] Re: Pc Boards Got em ! but No Knowledge

Message-ID: <002701c1c4a4\$060a3f20\$99a4fea9@robertpa>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Another suggestion is to use pumus stone. This can be bought at a PC board supplier or beauty aid shop.

It works much better than steel wool.

Make sure you clean the board with the grain and not against.

Always wash with running water and keep your finger prints and other contaminants out of it.

Here is an excellent site that gives instructions into PCB making.

Harry tells all!

<http://pmp3.net/harry/>

Regards,

Robert

VE3RPF

----- Original Message -----

From: Bruce Muscolino <w6toy@erols.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, March 05, 2002 6:53 PM

Subject: Re: Pc Boards Got em ! but No Knowledge

>

> Well, you've bitten off a big chunk three! First off, I would hope you

> have more than one board to play with! Doing your own PC board design

> and etching it is not an easy process, if the design is at all complex!

>  
> There are several ways to layout the board for etching. You can use a  
> toner transfer system. You can use rub down symbols, and you can use  
> masking tape! Toner transfer systems are neat, and work very well, BUT,  
> first you must learn the in's and out's of the software and make the  
> toner transfer system work!  
>  
> Rub down symbols work very well but I would only recommend using them  
> for the circuit. You will have other problems, including the ground  
> planes!  
>  
> Masking tape is the easiest but still takes some skill with an X-Acto  
> knife! I have used all three methods. For a single board, certainly  
> for a prototype, I like masking tape. In fact I would recommend it!  
>  
> You cover the board with several layers of masking tape and draw your  
> design on the tape. Then you use an X-Acto knife or a razor blade to  
> carefully cut around the design. When finished you rub the masking tape  
> down again and it's off the the etching tank!  
>  
> Note, there are methods that use a "Sharpie" pen to lay out the  
> circuit. They sell special etch resist pens for this purpose. I have  
> never used them but they should work for the circuit!  
>  
> Etching. I use a small plastic box, only slightly larger than the  
> board. I put 1/3 to 1/2 nch of ferric chloride in there and submerge  
> the board. You can heat the ferric chloride slightly by floating the  
> plastic box in a water bath and heating the water. The etching process  
> will go faster!  
>  
> Other notes, Cleanliness is next to whatever in this process. Use fine  
> steel wool on the board surface before you put any masking tape or  
> anything else on. Also, carefully clean the etched board with running  
> water and soap when you are done. Use steel wool again until the board  
> is shiny and brite!  
>  
> And, ferric chlorine is bad for your drains, public water systems, and  
> bad for your lawn too! Do not dump the used material in the drains and  
> don't put it out in the lawn or flower beds. You will see the effects  
> immediately! Put it in a plastic bottle and tell the garbage people  
> what it is!  
>  
> As you can see, etching a PC board is really a lot of trouble. The last  
> time I needed one I went to FAR Circuits with a layout and they etched  
> me a few for \$25.00! While it takes a lot of the fun out of the  
> process, I sort of agree with those who say have them made commercially!  
>  
> 73

-----  
Date: Tue, 05 Mar 2002 19:35:09 -0500  
From: Fred Lesnick <flesnick@tbaytel.net>  
To: "QFOX@egroups.com" <QFOX@egroups.com>, QRPL <qrp-1@Lehigh.EDU>  
Subject: [121364] Family Crisis, unable to be Fox tonight  
Message-ID: <3C85643D.DAB5CA63@tbaytel.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Folks:  
Sorry for the short notice, but a family crisis came up, and I am out  
the door to attend to it.  
It is 0030 z, and chances are I will not be back by 0200 z.  
I apologize for this short notice.

Fred  
VE3FAL

-----  
Date: Tue, 5 Mar 2002 19:40:11 -0500  
From: "N3BJ" <alanfryer@msn.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [121365] Re: Family Crisis, unable to be Fox tonight  
Message-ID: <006501c1c4a7\$7b2e50e0\$4e47d043@hppav>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Sorry to hear that, Fred, hope it's nothing too serious.... Wonder if  
someone could be an ad hoc backup ??

Alan, N3BJ

----- Original Message -----  
From: "Fred Lesnick" <flesnick@tbaytel.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Tuesday, March 05, 2002 7:35 PM  
Subject: Family Crisis, unable to be Fox tonight

> Folks:  
> Sorry for the short notice, but a family crisis came up, and I am out



> the door to attend to it.  
> It is 0030 z, and chances are I will not be back by 0200 z.  
> I apologize for this short notice.  
>  
> Fred  
> VE3FAL  
>

-----  
Date: Tue, 05 Mar 2002 19:31:10 -0500  
From: David Hinerman <wd8civ@worldnet.att.net>  
To: qrp-1@lehigh.edu  
Subject: [121366] RE: Early morning DX?  
Message-ID: <3.0.6.32.20020305193110.0079a5f0@postoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Mark,

DX? At that time of the morning I'm doing good to make it the 20 miles to work.

Dave

At 05:09 PM 3/5/02 -0500, you wrote:

>OK, Dave, so what DX do you work when you got up so early? I'm like Steve,  
>I've often wondered if it was worth getting up early for DX hunting.

>  
>Mark, AA4MF

>  
>-----Original Message-----  
>From: David Hinerman [mailto:WD8CIV@worldnet.att.net]  
>Sent: Tuesday, March 05, 2002 5:06 PM  
>To: Low Power Amateur Radio Discussion  
>Subject: Re: Early morning DX?

>  
>  
>Steve,  
>  
>If you need some help with getting up early, go spend a week in England and  
>then come home.

>  
>I did the same thing last week, and the next work day I was in at 6:30 AM.  
>And I felt like I'd slept until 11:30 AM. (Of course I went to bed at 8:30  
>the previous evening.)

>

>Embrace jet lag!  
>  
>Dave  
>  
>At 05:01 PM 3/5/2002 -0500, you wrote:  
>>All my life I've one of those people who are late to bed and late to rise.  
>>Up by the crack of noon is my motto<g> So, I'm wondering if any of you  
>>early risers find good DX early in the morning hours? It would be a  
>>struggle, but maybe I should change my ways...  
>>  
>>  
>>72,  
>>Steve, KD1JV  
>>"Melt Solder"  
>>White Mountains of New Hampshire  
>><http://www.qsl.net/kd1jv/>  
>  
>  
>-----  
>"You can fool some of the people all of the time. That's enough to make a  
>living." - Lance Burton  
>Dave Hinerman  
>WD8CIV@worldnet.att.net  
>

-----  
Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Tue, 5 Mar 2002 15:20:15 -0500 (EST)  
From: <n2go@arrl.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [121367] FS qrp +solar  
Message-ID: <Pine.LNX.4.33.0203051456150.1406-1000000@valhalla.v>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello,  
I have a package that someone may be interested in.

1. DSW40 synthesized 40 meter qrp transceiver \*as new\* with the neat looking blue anodized (10 on the Coolness Scale :) engraved deluxe case, keyer and freq cw readout ( this rig is a Classic )
2. SunLogic Micro"P" charge controller (new/unused)

This is the 10A non relay MOSFET design in heavy duty Alum housing.  
for description see <http://www.seslogic.com/microp.html>

3. Two (2) Five watt Solar panels (new/unused)

These are compact high power solar panels designed for outdoor use  
they consist of 36 high output amorphous silicon solar cells totally  
encapsulated and installed in a white polymer frame. They are rated at  
open circuit voltage of 20V and short circuit current of 250ma.  
Each panel is 8 11/16" x 8 5/8"

These are offered as a package for \$250.

Jim n2go

-----  
Date: Wed, 6 Mar 2002 10:53:18 +0900  
From: Junichi Nakajima <nakaji@crl.go.jp>  
To: qrp-l@Lehigh.EDU  
Subject: [121368] Re: Dave (K1SWL) does it again! Lets make 'im tell us all about  
it!  
Message-ID: <200203060147.KAA22015@ryuu.>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hi,All

>It's not like I'm some self-appointed town crier or anything, but I do keep  
>a sharp watch on the products coming out of Colchester, CT.

The "Village Radio" presented in the SWL web certainly will attract  
curiosity. Is is quite intersting that the frequency channels  
are selected by push button. Color of the enclosure is my favorite color.  
If the tansceiver will be relaesed to QRPers, I wish to have  
a one above 21MHz.

On the other hand, I see the WM-series does not have enclosure  
option any more.

JL1KRA/QRP

-----  
Date: Tue, 5 Mar 2002 20:53:57 -0500

From: "ss lyon" <sslyon@megalink.net>  
To: "chat qrp" <qrp-1@lehigh.edu>  
Subject: [121369] 160m anyone?  
Message-ID: <014801c1c4b1\$c7b70380\$c7a969ce@megalink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'll be poking around 1.810 tonite, using a MELT SOLDER 160 and my new 250' end fed Zepp at 60', beaming E-W. (after checking into MIQRP net)

73

AA1MY

Seabury & Sharon Lyon  
99 Sparrowhawk Mtn Rd  
Bethel ME, 04217 U.S.A.  
207-836-2576

Virus Protection by Norton and ZoneAlarm

-----  
Date: Tue, 5 Mar 2002 20:16:09 -0600  
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [121370] FOX -- Cub Fox KB7WW  
Message-ID: <200203060216.AA01053@bolshoi.cc.misu.nodak.edu>  
Content-Type: text/plain  
Mime-Version: 1.0 (NeXT Mail 4.2mach\_patches v148.2)

KB7WW has jumped in as Cub Fox, running at about 7.052.6,  
listening down. Go get him!

72/73,

Todd, AG0T

-----  
Date: Tue, 5 Mar 2002 19:39:02 -0700  
From: "Jason Nochlin" <jman0iin@attbi.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [121371] RE: FOX -- Cub Fox KB7WW

Message-ID: <001b01c1c4b8\$141f32a0\$016410ac@mshome.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

He is now on 7.0532 and listening down.  
73,  
Jason KC0IIN

-----  
Date: Tue, 5 Mar 2002 19:40:37 -0700  
From: "Rod N0RC" <rod@n0rc.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Cc: <kd1jv@moose.ncia.net>  
Subject: [121372] Re: Early morning DX?  
Message-ID: <000a01c1c4b8\$4cf1dbf0\$6401a8c0@greyrock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Steve, et.al

For a good sampling of what is happening in the early AM have a  
look at DX Summit: <http://oh2aq.kolumbus.com/dxs/> DX Spots by  
band and mode. I goes back a few hours so you can see what  
you've missed.

If you like what you see give it [Early AM DX] a try. Be sure to  
set up the coffee pot on a timer the night before. ;-) If things  
don't work out, take a nap later in the day.

73, Rod N0RC  
Fort Collins, CO

----- Original Text -----

Subject: Early morning DX?  
From: Steven Weber (kd1jv@moose.ncia.net)  
Date: Tue Mar 05 2002 - 17:01:57 EST

...

> All my life I've one of those people who are late to bed and late to  
rise.

> Up by the crack of noon is my motto<g> So, I'm wondering if any of

you

> early risers find good DX early in the morning hours? It would be a  
> struggle, but maybe I should change my ways...

-----  
Date: Tue, 05 Mar 2002 21:30:49 -0500  
From: TheRubins <hrubin1970@comcast.net>  
To: qrp-1@lehigh.edu  
Cc: kandrparker@sympatico.ca  
Subject: [121373] RE: Pc Boards Got em ! but No Knowledge  
Message-ID: <NFBBIJLJMLJIHFGJNANDGELBCHAA.hrubin1970@comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

PCB-ites:

I checked Harry's site and was glued there until I read most of it. He's a blast!

I'm intrigued over etching using "Hydrochloric Acid (HCl), 1-part Hydrogen Peroxide (H2O2) and four parts of water (H2O) solutions."  
(<http://pmp3.net/harry/>) But at what concentrations are these fundamental ingredients purchased before mixing according his recipe?

Regards, Howard N3FEL

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of ZOOM  
Sent: Tuesday, March 05, 2002 7:15 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Pc Boards Got em ! but No Knowledge

Another suggestion is to use pumus stone. This can be bought at a PC board supplier or beauty aid shop.

It works much better than steel wool.

Make sure you clean the board with the grain and not against.

Always wash with running water and keep your finger prints and other contaminants out of it.

Here is an excellent site that gives instructions into PCB making.

Harry tells all!

<http://pmp3.net/harry/>

Regards,  
Robert  
VE3RPF

----- Original Message -----

From: Bruce Muscolino <w6toy@erols.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Tuesday, March 05, 2002 6:53 PM  
Subject: Re: Pc Boards Got em ! but No Knowledge

>  
> Well, you've bitten off a big chunk three! First off, I would hope you  
> have more than one board to play with! Doing your own PC board design  
> and etching it is not an easy process, if the design is at all complex!  
>  
> There are several ways to layout the board for etching. You can use a  
> toner transfer system. You can use rub down symbols, and you can use  
> masking tape! Toner transfer systems are neat, and work very well, BUT,  
> first you must learn the in's and out's of the software and make the  
> toner transfer system work!  
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> Rub down symbols work very well but I would only recommend using them  
> for the circuit. You will have other problems, including the ground  
> planes!  
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> Masking tape is the easiest but still takes some skill with an X-Acto  
> knife! I have used all three methods. For a single board, certainly  
> for a prototype, I like masking tape. In fact I would recommend it!  
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> You cover the board with several layers of masking tape and draw your  
> design on the tape. Then you use an X-Acto knife or a razor blade to  
> carefully cut around the design. When finished you rub the masking tape  
> down again and it's off the the etching tank!  
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> Note, there are methods that use a "Sharpie" pen to lay out the  
> circuit. They sell special etch resist pens for this purpose. I have  
> never used them but they should work for the circuit!  
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> board. I put 1/3 to 1/2 nch of ferric chloride in there and submerge  
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> plastic box in a water bath and heating the water. The etching process  
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> Other notes, Cleanliness is next to whatever in this process. Use fine

> steel wool on the board surface before you put any masking tape or  
> anything else on. Also, carefully clean the etched board with running  
> water and soap when you are done. Use steel wool again until the board  
> is shiny and brite!  
>  
> And, ferric chlorine is bad for your drains, public water systems, and  
> bad for your lawn too! Do not dump the used material in the drains and  
> don't put it out in the lawn or flower beds. You will see the effects  
> immediately! Put it in a plastic bottle and tell the garbage people  
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> As you can see, etching a PC board is really a lot of trouble. The last  
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> me a few for \$25.00! While it takes a lot of the fun out of the  
> process, I sort of agree with those who say have them made commercially!  
>  
> 73

-----  
Date: Tue, 05 Mar 2002 21:06:19 -0600  
From: Lew Paceley <lew@paceley.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121374] The Fox is Here Tonight - THANKS ART!  
Message-ID: <002001c1c4bb\$e3b4f420\$6501a8c0@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=Windows-1252  
Content-transfer-encoding: 7BIT

Folks,  
Art, KB7WW has stepped up to the pursuit this PM. Above 7050 or so  
listening down. He needs hounds!

72/73,  
\*Lew\*  
N5ZE

PS - Art, a special thanks from all of us for stepping into the  
batters box on short notice. Fred, we wish you the best with whatever  
called you away.

-----  
Date: Tue, 5 Mar 2002 22:10:36 -0500  
From: "ZOOM" <kandrparker@sympatico.ca>



To: "TheRubins" <hrubin1970@comcast.net>, <qrp-1@lehigh.edu>  
Subject: [121375] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <005a01c1c4bc\$7c63de20\$99a4fea9@robertpa>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

10% Hydrogen Peroxide and 10% HCL  
30% HCL can be bought at most hardware stores. Just add water to bring the concentration down to near 10%.  
Hydrogen peroxide may be a little harder to find at 10%. Most of it is 3% from the drug store. Anyone know of a source?  
Harry is a great guy and is very helpful. He even has a question and answer forum. I highly recommend his PCB video on CD.  
I got it and it is full of very useful information.

I hope this helps  
Robert  
VE3RPF

----- Original Message -----  
From: TheRubins <hrubin1970@comcast.net>  
To: <qrp-1@lehigh.edu>  
Cc: <kandrparker@sympatico.ca>  
Sent: Tuesday, March 05, 2002 9:30 PM  
Subject: RE: Pc Boards Got em ! but No Knowledge

> PCB-ites:  
>  
> I checked Harry's site and was glued there until I read most of it. He's  
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>  
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>  
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> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> ZOOM  
> Sent: Tuesday, March 05, 2002 7:15 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Re: Pc Boards Got em ! but No Knowledge

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> From: Bruce Muscolino <w6toy@erols.com>  
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
> Sent: Tuesday, March 05, 2002 6:53 PM  
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> > process, I sort of agree with those who say have them made commercially!  
> >  
> > 73  
>

-----  
Date: Wed, 06 Mar 2002 03:11:11 +0000  
From: k8cz@att.net  
To: fpqrp-l@mpna.com (The Pigs!)  
Cc: qrp-l@Lehigh.EDU (QRP-L), njqrp@njqrp.org (NJQRP)  
Subject: [121376] Truffle 3/5/2002  
Message-ID:  
<20020306031112.CNIG11747.mtiwmhc23.worldnet.att.net@webmail.worldnet.att.net>

Well conditions were better than I thought considering  
an A-index in the teens.

Rig here was a Yaesu FT 817 running 5 watts to a ground  
mounted vertical. Not the best of antennae, but  
adequate to net me 40 states and 54 DX countries since

the first of the year.

Here is what I heard.

W5TB	559	TX	DOC	5W
W5YR	559	TX	GEORGE	5W
WU9N	559	WI	FEROZ	5W
W9HL	559	IL	RANDY	5W
AF4PS	559	FL	MAC	3W
K8CV	559	MI	WALT	5W
W5USJ	559	TX	CHUCK	5W
WA9TZE	559	WI	JIM	5W
K4BYF	559	FL	JACK	5W
K5SR	559	TX	DALE	5W
K0EVZ	559	ND	DOC	5W
K5JHP	559	TX	BILL	5W
K5DW	559	TX	DON	5W
KC9LC	559	VA	RANDY	5W
WE9K	599	WI	GLENN	5W
N1TP	579	FL	TOM	5W
W0RSP	559	SD	ADE	2W GOOD SIG
WA8BXN	589	OH	MIKE	5W

18 OF Y'ALL. Even operating split, at times there were so many I couldn't make out a call. Jolly good show gang.

TU es oink-oink. Thanks for the new state Ade.

--

73,72, 00

FP #41 NJQRP #338 Fists #2360

ARCI #9606 SOC #336 Norcal ARRL

Hamilton, Ohio EM79ri

Tom, K8CZ

-----

Date: Tue, 05 Mar 2002 21:33:43 -0600

From: DENNIS SMITH <ne4o@swbell.net>

To: qrp-l <qrp-l@Lehigh.EDU>

Subject: [121377] JAN QQ

Message-ID: <002101c1c4bf\$b8264d00\$323ffea9@Default>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

Has anyone got their jan qq yet?

Or do you know when they will ship?  
dennis w5vaf

-----  
Date: Tue, 5 Mar 2002 22:38:06 EST  
From: W0rw@aol.com  
To: sslyon@megalink.net, qrp-1@lehigh.edu  
Subject: [121378] Re: 160m anyone?  
Message-ID: <132.a1d91b0.29b6e91e@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Seabury...  
Please listen for the 'RW' Beacon on 480 kHz.  
The Beacon sends 'RW' in CW at 15 WPM  
The best listening times are late night to early mornings.  
Thanks Paul  
w0rw@aol.com  
PO Box 6069  
Colorado Springs, CO 80934

-----  
Date: Tue, 05 Mar 2002 22:44:54 -0500  
From: Paul Womble <pwomble1@tampabay.rr.com>  
To: QRP-L <qrp-1@lehigh.edu>  
Subject: [121379] Fox K4FB Log v2.0  
Message-ID: <3C8590B6.9D235D2A@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Please send any corrections no later than tomorrow afternoon. Tomorrow night it goes to the bean counters.

Paul K4FB

2:01 N5ZE 559 TX LEW 5W  
2:01 N1TP 559 FL TOM 5W  
2:02 K4TJD 559 GA TOM 5W  
2:03 K8KFJ 559 WV GARY 5W  
2:03 N9NE 559 WI TODD 5W  
2:04 K0EVZ 559 ND DOC 5W  
2:05 AJ4AY 559 AL JAY 4W

2:06 W4BQP 559 NC JIM 5W  
2:07 W5USJ 559 TX CHUCK 5W  
2:07 WA8BXN 559 OH MIKE 5W  
2:08 N4ROA 559 VA DAN 1W  
2:09 AC5JH 559 OK TOM 5W  
2:09 K3IU 559 RI KEN 5W  
2:10 AA50 599 LA VERN 5W  
2:11 W0UFO 559 MN MERT 5W  
2:11 N0UR 559 MN JIM 5W  
2:12 KR2F 559 NY VINNY 5W  
2:13 W0CH 559 MO DAVE 900MW  
2:13 W9XU 559 WI LON 5W  
2:14 N1FN 559 CO ET 5W  
2:14 N3ZPQ 559 OH FRANK 4W  
2:15 AD4IH 559 FL JOE 5W  
2:16 K4BYF 559 FL JACK 5W  
2:18 K4GT 559 GA JIM 5W  
2:18 N4MAP 559 GA SAM 5W  
2:19 KR5C 559 TX GEORGE 5W  
2:20 N0AR 559 MN SCOTT 5W  
2:21 KD5KXF 559 TX MIKE 5W  
2:22 K5JHP 559 TX BILL 5W  
2:23 K5EOA 559 LA WAYNE 5W  
2:24 N9IJ 559 IL LEN 5W  
2:25 K8CV 559 MI WALT 5W  
2:27 WV9N 559 OH RANDY 5W  
2:27 W2XN 559 FL FRED 5W  
2:28 W5YR 559 TX GEORGE 5W  
2:29 N2WW 559 CO LARRY 5W  
2:30 K3PH 559 PA BOB 5W  
2:31 W9FR 559 IN NOEL 5W  
2:33 K5SR 559 TX DAVE 5W  
2:33 W0RSP 569 SD ADE 4W  
2:34 N5IB 559 LA JIM 5W  
2:35 K9DC 559 IN DAVE 5W  
2:35 W0PWE 559 IA JERRY 5W  
2:36 WB6BWZ 579 GA MATT 5W  
2:37 K5DI 559 NM KARL 5W  
2:38 WA9TZE 559 WI JIM 5W  
2:39 WD5CMA 559 LA GLORIA 5W  
2:39 K0PC 559 MN PAT 5W  
2:40 N5YFC 559 LA WAYNE 5W  
2:41 K4NK 559 SC LES 3W  
2:42 NK9G 599 WI RICK 5W  
2:43 KK5LD 559 TX DAN 5W  
2:44 XE1YJL 599 XE LUIS 40W  
2:45 AF4AT 599 NC JIM 5W  
2:46 K2PQ 559 NJ FRANK 5W

2:47 W5TB 599 TX DOC 5W  
2:48 AB0CD 559 CO DICK 5W  
2:48 W5YW 599 LA MIKE 5W  
2:49 KQ5U 559 TX TERRY 5W  
2:50 W5YA 559 NM FRED 5W  
2:53 W9HL 559 IL RANDY 5W  
2:56 KR5N 559 TX MARCUS 5W  
2:58 WE9K 559 WI GLENN 5W  
2:59 AF4LQ 595 KY MIKE 5W  
3:00 K5DW 559 TX DON 5W  
3:01 K9OZ 559 IL BRUCE 5W  
3:02 NU8S 559 OH DENNIS 5W  
3:03 N9AW 559 WI JERRY 5W  
3:05 KC9LC 559 VA RANDY 5W  
3:07 WR50 559 TX DAVE 5W  
3:07 AF4PS 599 FL MAC 3W  
3:09 KB9LGJ 559 CA TIM 5W  
3:10 K0WV 579 MN BILL 200  
3:12 NX8C 559 MI NEIL 5W  
3:13 AA7XA 559 OR FRANK 5W  
3:16 K7TQ 559 ID RANDY 5W  
3:17 VE3FAL 559 ON FRED 5W  
3:18 KF0N 559 IA LARRY 4W  
3:18 AF4PP 599 GA CHUCK 5W  
3:19 KI0II 559 CO RON 5W  
3:20 KV2X 559 NY TOM 5W  
3:21 KG4LDY 559 VA JIM 5W  
3:21 K4ADI 559 SC FRANK 5W  
3:22 N0RC 559 CO ROD 5W  
3:23 NV4V 559 KY PETE 5W  
3:23 W8RU 559 MN RON 5W  
3:24 N0DSP 559 CO TOM 5W  
3:25 NK6A 559 CA BOB 5W  
3:27 VE4WI 559 MB CRAIG 5W  
3:28 VE5RC 559 SK BRUCE 5W  
3:29 NM5M 559 TX ERIC 5W  
3:30 KJ0C 559 MO JIM 5W  
3:32 KC1FB 559 CT JIM 5W  
3:33 N0SRL 559 MN KEN 5W  
3:37 NN5E 559 TX VERN 5W  
3:37 KB7WW 559 OR ART 5W  
3:41 VA6RF 559 AB EARL 5W  
3:42 N3BJ 559 VA ALAN 5W  
3:42 N1QO 559 VT JOHN 5W  
3:44 AG0T 339 ND TODD 4W  
3:45 W7ILW 559 AZ WALT 5W  
3:45 N7CQR 559 OR BRUCE 5W  
3:47 K5KW 569 OK DON 5W

3:59 KC0ATC 559 CO CHRIS 5W  
4:00 VE6EX 559 AB DAN 5W  
4:00 K4FB 559 FL PAUL 5W

-----  
Date: Tue, 5 Mar 2002 21:48:01 -0600 (CST)  
From: "Adrian Weiss" <aweiss@usd.edu>  
To: qrp-l@lehigh.edu  
Subject: [121380] Open Line & Bal. Tuner -- Practical Designs  
Message-ID: <Pine.SOL.4.03.10203052115580.27506-100000@sunburst.usd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi all:

I posted some comments last. This a.m., I picked up the next SPRAT to just see what was in it, and believe it or not, an article giving practical dimensions for a combination of doublets and feedlines. It is by Bill Wright G0FAH in the Spring 1992 issue, pp.12-13. He used a computer pgm to find combinations of doublet length and feedline length to produce fairly low SWR's on several bands. His choice was:

Doublet, 29.3 meters. Feedline: 11.5m of 300-Ohm Window line  
The impedance at the tx end of the feedline and SWR is shown:

Freq.	Resistance	Reactance	SWR
3.56	6.7 Ohms	-4	7.6
7.03	35	+28	2.1
14.06	40	-3	1.2
18.07	39	+69	4.3
24.9	98	+81	3.5
28.06	46	-31	1.9

Obviously, a tuner is needed on 80, 17, and 12m.

The problem is with 30 and 15m where the impedance was outrageous. By changing the feeder length to 8.8 meters, the following impedance occurs:

10.1	27	+2.34	1.8
21.06	24	-4	2.0

Or by adding 3.4m to the original 11.5m:



10.1	52	-4.22	1.0
21.06	24	+3	2.0

Now, newbies can see what happens when the feedline length is changed. The impedance varies constantly along a feedline when a mismatch is present. It is a natural transforming device. The only way the amount of transformation can be adjusted is by changing the length, assuming that the antenna is not changed in anyway.

In the old handbooks, they used to schematically represent a feedline by a series of parallel inductors, representing the two wires, shunted by capacitors across the lines, representing the capacitive coupling between them. Of course, that's not what is actually happening on a real feedline, i.e., all of a sudden you get a capacitor at a specific point along the line. In a real feedline, the capacitors happen for a while, then the inductors happen for a while, etc. Depending on which occurs where the line ends, you either get capacitive (-) or inductive (+) reactance.

Now, when the end of the line is connected to a balanced tuner, its inductors and capacitors can be seen to squish a length of feedline into lumped mechanical devices. So, instead of having to change the length of the actual feedline, you change the settings and arrive at a combination of series inductance and shunt capacitance which "mimics" a certain length of feedline. That is, the tuner acts as if it is an extra 13m or 6.5m of feedline, giving the same amount of impedance transformation as either length of feedline would produce. That's how the tuner gets a 1:1 match between its 50-ohm source (tx) and the whacky impedance of the load (end of feedline).

Now, to return to G0FAH's discussion. Pointing to the 10.1MHz configuration with the 8.8m, he says: "We only need to tune out the series reactance ... WE can do this with a 130pf capacitor put in each leg of the feedline [between feedline and tx].. If the longer 14.9m feedline is used then inductors of 3.3uh can be put in each leg instead." You can notice from the numbers in the table that neither length of line will produce a non-reactive load -- some reactance is present, and for perfect match, it has to be cancelled out. One way is an adjustable tuner. He shows what the other way is. The problem with mismatched feedlines is that there is absolutely no where along the line where the reactance is zero.

So much for theory.

G0FAH gives a practical solution to this different feedline length for 10.1 and 21 and another for the other bands. Suppose you go between 11.5m and 14.9m lengths. Cut the line to 11.5m, then solder a 2-pin plug at its end. Cut a line 3.4m long, solder a matching 2-pin socket to one end, and whatever you want at the tuner end to connect it to the tuner. Then, when changing bands to either 10.1 or 21MHz, you simply disconnect the 11.5m line, plug the 3.4m line into it, and connect to the tuner.

Nice practical solution -- a lot better than my method, i.e., doing a quick splice!!!

Thanks to G0FAH for his design work and suggestions!

72, Ad W0RSP

-----  
Date: Tue, 05 Mar 2002 22:01:24 -0600  
From: Lew Paceley <lew@paceley.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121381] Re: 40673's  
Message-ID: <005701c1c4c3\$954553e0\$6501a8c0@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=Windows-1252  
Content-transfer-encoding: 7BIT

Folks,  
As I said in my post, the NTE222 (in a T0-72 package) is available through Mouser and is listed as a direct substitute for the 40673. They have 438 in stock as of 3/5/02 at 10PM. If you want to recreate an older design that uses 40673s you can do it simply by sending Mouser \$8.96 for each NTE222. Or you can order NOS 40673 parts from Dan's Small Parts or others.

40673 originals and substitutes are still available and are not "long gone" for the small qty. homebrewer despite the posts to the contrary.

72/73,  
\*Lew\*  
N5ZE

-----  
Date: Wed, 06 Mar 2002 04:06:24 +0000

From: Arthur Moe <kb7ww@easystreet.com>  
To: qrp <qrp-1@Lehigh.EDU>  
Subject: [121382] Thanks For FOX time  
Message-ID: <3C8595C0.1E476DC5@easystreet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks to all who stooped by tonight. Looks like about 46 Q's, Sorry for those weak ones that I couldn't pull out. Log later.

Art  
KB7WW

-----  
Date: Tue, 05 Mar 2002 23:18:35 +0000  
From: Gary Lee <kb9zuv@arrl.net>  
To: qrp-1@lehigh.edu  
Subject: [121383] small qrp tuner design needed with audio indicator  
Message-ID: <3.0.6.32.20020305231835.007c3290@mailhost.ind.ameritech.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I have just started getting into qrp. My rigs are currently two pixie IIs with a 2n-4401 substituted for the pa. This gives about 450mw according to my elmer's mfj versatuner. I soon will be adding an OHR explrer for 30 meters. The two pixies ar 40 and 80 respectively.

I would like to find a design for a tuner for these. I am totally blind, so a standard meter is no good too me. Antennas will either be dipolse fed with 300 ohm twinlead or a long wire and ground steak. Not sure which will be simpler. I suspect the long wire.

Anyone know of a design for a qrp tuner which could give a beep instead of lighting an led like the m-tech (pardon the spelling have only heard this name in conversation)?

Thanks for any help. The simpler the design, the better. I am not much for soldering, and hate to take much more of my friends time in building.

Gary Lee  
kb9zuv

-----

Date: Tue, 5 Mar 2002 21:21:50 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: <qrp-l@lehigh.edu>  
Subject: [121384] FOX: Cub Fox problem  
Message-ID: <Pine.LNX.4.33.0203052114470.4767-100000@Daisy.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I recieved notice that the real Cub Fox was not going to make it 5 minutes before leaving for a School Board meeting. It was 0110 Z and I could do nothing to find a stand in. I expect that Doc got in touch with KB7WW who volunteered at the last minute to take over.

It is now 0415 Z and I just learned that we had a stand-in so I missed another Hunt. I usually sneak out from the meeting long enough to work the fox from my mobile. But since I knew there was to be no Fox I didn't sneak out.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -  
<http://www.zianet.com/k5di/>

-----  
Date: Tue, 5 Mar 2002 20:54:27 -0800  
From: "Kory Hamzeh" <kory@avatar.com>  
To: <kb9zuv@arrl.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [121385] RE: small qrp tuner design needed with audio indicator  
Message-ID: <009401c1c4ca\$feb99e60\$14ce21c7@avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gary,

I bet a tuner like the ZM-2 can easily be adapted to feed the output that goes to the LED to a voltage controlled amplifier where you would tune to a null in the "tone". I'm sure someone where can design one for you -- I don't know enough analog to do so.

Good luck,  
Kory  
AC6RN

> -----Original Message-----  
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> Gary Lee  
> Sent: Tuesday, March 05, 2002 3:19 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: small qrp tuner design needed with audio indicator  
>  
>  
> I have just started getting into qrp. My rigs are currently two pixie IIs  
> with a 2n-4401 substituted for the pa. This gives about 450mw  
> according to  
> my elmer's mfj versatuner. I soon will be adding an OHR explrer for 30  
> meters. The two pixies ar 40 and 80 respectively.  
>  
> I would like to find a design for a tuner for these. I am totally blind,  
> so a standard meter is no good too me. Antennas will either be  
> dipolse fed  
> with 300 ohm twinlead or a long wire and ground steak. Not sure  
> which will  
> be simpler. I suspect the long wire.  
>  
>  
> Anyone know of a design for a qrp tuner which could give a beep  
> instead of  
> lighting an led like the m-tech (pardon the spelling have only heard this  
> name in conversation)?  
>  
> Thanks for any help. The simpler the design, the better. I am not much  
> for soldering, and hate to take much more of my friends time in  
> building.  
>  
> Gary Lee  
> kb9zuv  
>  
>

-----  
Date: Wed, 06 Mar 2002 00:18:15 -0500  
From: brickle <brickle@pobox.com>  
To: qrp-1@lehigh.edu  
Subject: [121386] Re: small qrp tuner design needed with audio indicator  
Message-ID: <3C85A697.4055154F@pobox.com>

MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

Ben Spencer, G4YNM, "An SWR Detector Audio Adapter," QST, Jul 1994, pp 24-25;  
also Feedback, QST, Aug 1994, p 69, and Nov 1994, p 88.

<http://www.arrl.org/members-only/tis/info/pdf/9703036.pdf>,  
"A Relative-Indication Audible Meter Reader"

73  
Frank  
AB2KT

-----  
Date: Tue, 5 Mar 2002 21:34:39 -0800  
From: "Gary O. Lyons" <drgary@urx.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [121387] CUB FOX - Thanks Art!  
Message-ID: <000501c1c4d0\$9dbaef00\$3cd56bce@GLyons>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I finally had a chance to sit down at the rig around 0335Z. Tuned across  
the most likely spot for Fred and found Art. I promptly worked him with  
500mw.

Then a few minutes agp I finally managed to get caught up on QRP-L. Fred, I  
sure hope the family situation was easily resolvable.

Art, thanks a bunch for filling in at literally the last minute. Your extra  
effort is definitely appreciated.

72/73,  
Gary/NQ7T

-----  
Date: Tue, 05 Mar 2002 22:43:18 -0700  
From: "P.Ermisch" <ermisch@usa.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [121388] OT: 'true RMS' measurement  
Message-ID: <20020306054318.4488.qmail@uwdvg001.cms.usa.net>  
Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: quoted-printable

Am seeing some good deals on some test equipment but have some questions =  
I was  
hoping the kind people of this list might answer. =

Will a 'true RMS' meter give a 'more accurate' measurement of RF voltage?=  
=

Electronics theory is still a little muddy for me so excuse me if that wa=  
s a  
dumb question. Found a good deal on a digital MM with TRMS. Can TRMS  
measurement be made with some homebrew attachment and a less expensive MM=  
? =

For what other purposes would TRMS measurement be useful?

Thanks,  
Paul KB0LUR

-----  
Date: Wed, 6 Mar 2002 16:21:13 +0900  
From: Junichi Nakajima <nakaji@crl.go.jp>  
To: qrp-1@Lehigh.EDU  
Subject: [121389] Re: QRP-10A Contacts  
Message-ID: <200203060715.QAA23494@ryuu.>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hi, Chuck and all,

Although I have not tried the IA-10,  
thanks your nice web with detailed pictures.

>I have been on 10 meters the last few days and have  
>picked up a bunch of countries running the QRP-10A  
>at 500mW. JA, 9A2, IZ4, DL9, and a few others.

As you wrote, the 10m seem to have nice propagation.  
This week, W9/JH1ARY/QRP using his IC-706 + DP 5W  
(He had been a leader of Fujiyama transceiver project) and  
JR0BAQ/QRP 3-element Yagi did their  
2way QRP on 28.060.

Your(U.S.) saturday evening and our(JA's) sunday morning  
will be a good chance to meet each other in the high band  
QRP frequency.

JL1KRA/QRP Junichi Nakajima

-----  
Date: Tue, 5 Mar 2002 23:16:03 -0800 (PST)  
From: Bob Patten <n4bp@yahoo.com>  
To: SOC Reflector <soc@mailman.qth.net>,  
QRP-L Reflector <qrp-l@lehigh.edu>,  
Subject: [121390] SOC Spring Marathon Sprint March 9  
Message-ID: <20020306071603.15212.qmail@web14311.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

The SOC Contest Committee Is Pleased As Punch To Announce

The Spring  
Second Class Operator's Club (SOC) Marathon Sprint  
-----

Contest Name: SOC Marathon Sprint

Contest Date/Time: March 9, 2002, 1800Z through 2400Z

Categories: Single-Operator, All Band

Modes: CW Only

Exchange: \* Member - RST,  
State/Province/Country, SOC  
Number

\* Non-Member - RST,  
State/Province/Country, Power Out

QSO Points: \* Member = 5 Points  
\* Non-Member,  
Different Continent = 4 Points  
\* Non-Member,  
Same Continent = 2 Points

Multiplier: Total SPC (State/Province/Country)



may for all bands. The same station be worked on more than one band for QSO points and SPC credit.

Power Multiplier:      \* 0 - 250 mW = X 15  
                             \* 250 mW - 1 Watt = X 10  
                             \* 1 W - 5 W = X 7  
                             \* Over 5 W = X 1

Note: The highest power used on any band will determine the power multiplier.

Output power is considered as 1/2 of input power.

Suggested Frequencies:	GENERAL	NOVICE
160 Meters	1810 KHz	
80 Meters	3560 KHz	3710
KHz		
40 Meters	7040 KHz	7110
KHz		
20 Meters	14060 KHz	
15 Meters	21060 KHz	21110
KHz		
10 Meters	28060 KHz	28110
KHz		
6 Meters	50128 KHz	

Scoring:      \* Total score = Total QSO points for all bands X total SPC's for all bands X Power Multiplier

Reporting:      Entry includes a copy of the log, a summary sheet and, if more than 100 QSO's are reported, a dupe sheet.

The summary sheet must contain station and operator callsigns, total time on the air, a total score and by band listing of valid QSO's, SPC's, and QSO points, and output power for each band, total time-on-the-air, and operator name and signature, SOC member number and any comments.

All entries must be received before April 9, 2002.

Late entries will be counted as check logs.

Include an SASE with your entry for a copy of the results.

Results will be posted on QRP-L and on the SOC Website.  
The  
final decision on all matters concerning the contests rests  
with the contest manager.

You may submit your log/summary/dupe sheet submittals via  
E-Mail to n4bp@yahoo.com. They may also be submitted by  
regular mail to:

Bob Patten, N4BP  
2841 N.W. 112 Terrace  
Plantation, FL 33323

=====

73, Bob Patten, N4BP Plantation, FL

E-Mail: n4bp@yahoo.com Website: <http://www.qsl.net/n4bp>  
QRP ARCI #3412 FISTS #7871 ARS #799 SOC #1 Whiners #6

-----  
Do You Yahoo!?  
Try FREE Yahoo! Mail - the world's greatest free email!  
<http://mail.yahoo.com/>

-----  
Date: Tue, 5 Mar 2002 23:58:37 -0800  
From: "Dave Fifield" <dave@redhotradio.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [121391] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <006a01c1c4e4\$b8e53060\$0200a8c0@AD6A>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

What a lot of kerfuffle! I know a much simpler way.

Simply produce a set of gerber files and then send  
them to AP Circuits in Canada where, for a small  
fee, they will make you tin plated double sided boards  
with through holes and ship them to you by FedEx, to  
arrive at your place a couple of days later.

Check them out at <http://www.apcircuits.com>

I use them all the time, for ham stuff and professionally.  
Prices have come down over time! Enjoy.

Cheers,  
Dave F.  
AD6A

-----  
Date: Wed, 6 Mar 2002 06:30:24 -0500  
From: "Pastor-KC1DI" <elbc@pivot.net>  
To: <aweiss@usd.edu>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [121392] Re: Open Wire Line and Balanced Tuner  
Message-ID: <006601c1c502\$4fa4ee60\$16a8ba42@dor>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Hi All ,  
Enjoying this thread and learning a little also.

Ceal Moore's , W5DXP has an interesting web sight that discribes his no  
tuner all band antenna system. basically it's a 136 foot dipole fed with 450  
ohm line that is adjusted for length inorder to give close to a 50 ohm  
match. Of corse a Capacitor is needed to tune out reactence but it's quite a  
system. Here's the web sight.:  
<http://www.qsl.net/w5dxp/notuner.htm>

73 /72 Dave KC1DI

---  
Outgoing mail is certified Virus Free.  
Checked by AVG anti-virus system (<http://www.grisoft.com>).  
Version: 6.0.330 / Virus Database: 184 - Release Date: 2/28/02

-----  
Date: Wed, 6 Mar 2002 11:50:05 -0000  
From: "Ray Goff" <radioham@gmx.co.uk>  
To: "QRL-L List" <qrp-l@Lehigh.EDU>  
Subject: [121393] More on the 'Miracle Whip'

Message-ID: <FDEOKGEJJFNPABJIJGDDIEPCDMAA.radioham@gmx.co.uk>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hi,

Spurred on by a discussion on the GQRP reflector, I have looked again at the original article published in QST and have come up with a design which is much easier to build at the cost of a two knob coarse and fine tuning control.

For those interested, the design is documented on my website [www.qsl.net/g4fon](http://www.qsl.net/g4fon) or [www.g4fon.co.uk](http://www.g4fon.co.uk) and is built from components available from Maplin in the UK. The cost is about ?10 (\$15) and less if you have a well stocked junk box!

It took me an afternoon to build!

Any comments or suggestions are most welcome.

72's de Ray g4fon

RSGB, BATC, GQRP-10698 QRP-L 2378  
[ray@g4fon.co.uk](mailto:ray@g4fon.co.uk)  
[www.g4fon.co.uk](http://www.g4fon.co.uk)

-----  
Date: Wed, 6 Mar 2002 06:20:54 -0600  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: "'ermisch@usa.net'" <ermisch@usa.net>,  
      Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121394] RE: 'true RMS' measurement  
Message-ID: <01C1C4D7.12E38D40.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I'd say no. You're generally going to measure rf voltage using a probe to convert it to DC, so RMS becomes N/A.

But if you were using the true RMS meter to measure the rf voltage directly, it still wouldn't make a difference. True RMS meters give an accurate RMS reading regardless of waveform; it doesn't have to be a sine wave. But our ham equipment puts out good sine waves, so meters that are

only accurate on sine waves work fine.

72--Nick, WA5BDU

-----Original Message-----

From: P.Ermisch [SMTP:ermisch@usa.net]

Will a 'true RMS' meter give a 'more accurate' measurement of RF voltage?

Thanks,

Paul KB0LUR

-----  
Date: Wed, 06 Mar 2002 07:33:49 -0500  
From: David Beach <dbeach@blvl.igs.net>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [121395] Whither Bluesky Engineering?  
Message-ID: <B8AB76DC.23A8%dbeach@blvl.igs.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

Michael Gipe's Bluesky Engineering seems to have vanished from the Internet. He created a nice LCD frequency/clock display that was described in a QRPp issue a few years back. I found his personal website BUT no mention of the display and no e-mail address to contact him.

I suspect he is 'out of business' and the display is no more. Can anyone either verify this or (hopefully) prove me wrong?

(I may use Steve Weber's new LED display for my project - I just liked the built-in clock that Michael had included in his!)

--

David Beach  
VE3STI

-----  
Date: Wed, 6 Mar 2002 05:40:30 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: Ray Goff <radioham@gmx.co.uk>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121396] Re: More on the 'Miracle Whip'  
Message-ID: <Pine.LNX.4.33.0203060530410.1661-1000000@Daisy.dog>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Ray, The 'Miracle Whip' is a miracale for sure. There was a guy selling the things for \$90 and had claims of working 80 meters pedestrian mobile. I had visions of carrying my Yaesu FT-817 with a miracle whip antenna with me on my daily walk with Bucket (dog, big) while chatting with the group on 3.939 MHz called the New Mexico Breakfast Club.

But then my better self decided to look more closely at the design and of course dragging a 1/4 wave wire behind me (66 feet long) as a ground plane was not practical. So the vision died and I went back to using my old HT on the local repeater with no-one on it...

On Wed, 6 Mar 2002, Ray Goff wrote:

> Hi,  
>  
> Spurred on by a discussion on the GQRP reflector, I have looked again at the  
> original article published in QST and have come up with a design which is  
> much easier to build at the cost of a two knob coarse and fine tuning  
> control.  
>  
> For those interested, the design is documented on my website  
> [www.qsl.net/g4fon](http://www.qsl.net/g4fon) or [www.g4fon.co.uk](http://www.g4fon.co.uk) and is built from components available  
> from Maplin in the UK. The cost is about ?10 (\$15) and less if you have a  
> well stocked junk box!  
>  
> It took me an afternoon to build!  
>  
> Any comments or suggestions are most welcome.  
>  
> 72's de Ray g4fon  
>  
> RSGB, BATC, GQRP-10698 QRP-L 2378  
> [ray@g4fon.co.uk](mailto:ray@g4fon.co.uk)  
> [www.g4fon.co.uk](http://www.g4fon.co.uk)  
>  
>

--

Yours Truly,

- Karl F. Larsen, [k5di@arrl.net](mailto:k5di@arrl.net) (505) 524-3303 -  
<http://www.zianet.com/k5di/>

-----  
Date: Wed, 6 Mar 2002 08:09:47 -0500  
From: Tim ORourke <TORourke@KaiserFT.com>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [121397] Site for DL QRP kits  
Message-ID: <0514B74864ACD511934400508BBB5E3401E2C8@EMAIL1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"

Many have asked so here is the site.  
<http://www.qrpproject.de>  
Select the English Language option. Gud Lk.  
Tim KG4CHX

-----  
Date: Wed, 6 Mar 2002 08:24:17 -0500  
From: "Greg Breeden" <gbreeden@pivot.net>  
To: <Undisclosed-Recipient:;>  
Subject: [121398] F.S. Argosy II and 225 P.S.  
Message-ID: <000901c1c512\$385592e0\$cfa5ba42@e4e8t7>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Group,

I have an Ten Tec Argosy II (digital) and companion 225 Power Supply for sale.

The Radio is a 9.5 physically with a clean front panel. There are slight scratches on the bottom and back edges. This unit has a Black face and gray top/bottom covers. It was repainted at one point and looks nice. It has a small switch (rocker type) on the bottom which disables the speaker. It is a well done mod. by a previous owner I have found it handy. It is a 10 electrically.

ACCESSORIES INSTALLED:

#223a Noise Blanker  
#219 Crystal CW Filter 250 HZ narrow  
#224 Audio CW Filter  
#1126 T/R Relay for Linear Amp Control

P.S. #225

The supply is the standard "brown/bronze" color. It is a 8.5 physically with

some scratches on the top near the back. Of course, it is a 10 electrically. It is nice because it is designed to trip off in order to protect the Argosy.

Both units come with manuals.

\$400 for both units PLUS shipping. Prefer not to split them.

Greg Breeden, AL0A

-----  
Date: Wed, 6 Mar 2002 06:30:00 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: Nick Kennedy <nkennedy@tcainternet.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [121399] RE: 'true RMS' measurement  
Message-ID: <Pine.LNX.4.33.0203060611100.1661-100000@Daisy.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I say it depends on how the instrument measures voltage. For certain a meter with a needle that moves up a calibrated scale due to current flow in a coil can't be just applied to the coil as AC. The meter needle will just quiver near zero. At RF the coil and test leads gets too long and a coil offers lots of inductance to RF and so nothing moves.

The usual way around this is to use a Diode. Apply to 60 Hz AC to the meter through a Diode and only half of the sine wave gets through and the needle moves smoothly up scale.

It was found that using 2 diodes in a voltage double configuration has advantages. The meter's impedance goes down but the DC current gets cleaner and it's easier to calibrate the meter. And this circuit with a capacitor at the output of the diodes measures RMS voltage.

You can build a probe for high frequency by putting the components on a small perf board and attach to a rod that gets your hand away from the circuit. If your probe has 2 diodes and a capacitor you will be measuring RMS voltage.



Calibrating a probe is another far more difficult subject.

On Wed, 6 Mar 2002, Nick Kennedy wrote:

> I'd say no. You're generally going to measure rf voltage using a probe to  
> convert it to DC, so RMS becomes N/A.

>

> But if you were using the true RMS meter to measure the rf voltage  
> directly, it still wouldn't make a difference. True RMS meters give an  
> accurate RMS reading regardless of waveform; it doesn't have to be a sine  
> wave. But our ham equipment puts out good sine waves, so meters that are  
> only accurate on sine waves work fine.

>

> 72--Nick, WA5BDU

>

>

> -----Original Message-----

> From: P.Ermisch [SMTP:ermisch@usa.net]

>

>

> Will a 'true RMS' meter give a 'more accurate' measurement of RF voltage?

> Thanks,

> Paul KB0LUR

>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -  
<http://www.zianet.com/k5di/>

-----  
Date: Wed, 6 Mar 2002 06:37:00 -0700 (MST)

From: "Karl F. Larsen" <k5di@zianet.com>

To: Pastor-KC1DI <elbc@pivot.net>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [121400] Re: Open Wire Line and Balanced Tuner

Message-ID: <Pine.LNX.4.33.0203060634070.1661-100000@Daisy.dog>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Yes it's quite a site. I wonder how you call this a no-tuner system? He has transmission line transformers that he switches in and out.

My tuner system is much smaller and I replace the transmission

line transformers with 2 capacitors, a coil, and a 4:1 balun.

On Wed, 6 Mar 2002, Pastor-KC1DI wrote:

> Hi All ,  
> Enjoying this thread and learning a little also.  
>  
> Ceil Moore's , W5DXP has an interesting web sight that discribes his no  
> tuner all band antenna system. basically it's a 136 foot dipole fed with 450  
> ohm line that is adjusted for length inorder to give close to a 50 ohm  
> match. Of corse a Capacitor is needed to tune out reactence but it's quite a  
> system. Here's the web sight.:  
> <http://www.qsl.net/w5dxdp/notuner.htm>  
>  
> 73 /72 Dave KC1DI  
>  
>  
>  
> ---  
> Outgoing mail is certified Virus Free.  
> Checked by AVG anti-virus system (<http://www.grisoft.com>).  
> Version: 6.0.330 / Virus Database: 184 - Release Date: 2/28/02  
>  
>

--

Yours Truly,

- Karl F. Larsen, [k5di@arrl.net](mailto:k5di@arrl.net) (505) 524-3303 -  
<http://www.zianet.com/k5di/>

-----  
Date: Wed, 6 Mar 2002 09:56:01 -0500  
From: "Fancher, Mark (GEAE)" <[Mark.Fancher@ae.ge.com](mailto:Mark.Fancher@ae.ge.com)>  
To: Low Power Amateur Radio Discussion <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Cc: "'[kb9zuv@arrl.net](mailto:kb9zuv@arrl.net)'" <[kb9zuv@arrl.net](mailto:kb9zuv@arrl.net)>  
Subject: [121401] RE: small qrp tuner design needed with audio indicator  
Message-ID: <[F9351DA9F0F6D41187410090277B3EB304D5FCAD@ev008msxaege.ae.ge.com](mailto:F9351DA9F0F6D41187410090277B3EB304D5FCAD@ev008msxaege.ae.ge.com)>

Gary,

My first and only QRP antenna tuner project was the tuner presented by Doug DeMaw in his QRP book. What I found was that I could adjust the tuner for a peak in audio signal strength. As an experiment, I then measured the SWR. I found that tuning for max signal strength got me very close to the min SWR.

DeMaw's circuit involved one switch for selecting the inductance and two air variables, so you can simply tune it with only three adjustments to make.

Mark, AA4MF

-----Original Message-----

From: Gary Lee [mailto:kb9zuv@arrl.net]

Sent: Tuesday, March 05, 2002 6:19 PM

To: Low Power Amateur Radio Discussion

Subject: small qrp tuner design needed with audio indicator

I have just started getting into qrp. My rigs are currently two pixie IIs with a 2n-4401 substituted for the pa. This gives about 450mw according to my elmer's mfj versatuner. I soon will be adding an OHR explrer for 30 meters. The two pixies ar 40 and 80 respectively.

I would like to find a design for a tuner for these. I am totally blind, so a standard meter is no good too me. Antennas will either be dipolse fed with 300 ohm twinlead or a long wire and ground steak. Not sure which will be simpler. I suspect the long wire.

Anyone know of a design for a qrp tuner which could give a beep instead of lighting an led like the m-tech (pardon the spelling have only heard this name in conversation)?

Thanks for any help. The simpler the design, the better. I am not much for soldering, and hate to take much more of my friends time in building.

Gary Lee  
kb9zuv

-----  
Date: Wed, 6 Mar 2002 09:04:25 -0600  
From: "Brockwell, Stephen E. CECOM SEC FSSE ILEX" <brockwse@fssec.army.mil>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [121402] QRP DX in the ARRL contest  
Message-ID: <D9781901107D6A4AB59B567ED74090B454DA73@pandora.fssec.army.mil>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Due to commitments for working on a bike race I could only work from noon till 1800 local on Sunday in the ARRL SSB DX contest. Rig was an FT-817 (5

watts)on 10 meters to an old comet QE-HF antenna jerry-rigged on a mag mount base with the 10m stinger (3 feet tall) in place in a Ford Ranger Pickup halfway down a little valley in the hills of Fort Sill Oklahoma. (The bid race was the 12 Miles of Hell .... cold, windy, sharp rocks, lotsa falls and bandaids were in short supply).

My job at the race consisted of watching one particularly nasty area and often getting away from the truck to direct some of the traffic and check on the rugged outdoor people who kissed the earth. ... hard .... with lots of bad words ....

Anyway .... I started with Austria and soon got Slovenia, Czech republic, France, Germany and then Aruba, Cuba, Turks and Caicos Islands, Argentina, Japan, Portugal, Hong Kong, Costa Rica (he was 5 watts ... Good Signal!). All in all, I worked 20 new countries that afternoon and all on 5 watts on the 10 meter band. I'm not changing much on this setup.....

Heard quite a few QRP folks hooking up with DX stations and they sounded pretty good.

CQ WPX contest coming up later this month and I'm going to do what I can to increase my QRP DXCC totals. YEEE ....HAWWWW

Well ..... thats my story and I'm sticking to it.....

73,  
Steve KC5TTY  
Southwest Oklahoma

ps: Anyone got any of the stingers or elements for the Comet QE-HF antennas? They were made before the WARC bands so they only had 80?, 40, 20, 15 and 10. As far as I know they are no longer in production.

-----

Date: Wed, 06 Mar 2002 10:08:23 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: kandrparker@sympatico.ca  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [121403] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <3C8630E7.71E8825A@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

But, almost every house has steel wool under the sink! Not as many have pumice stone! The end result is the same, a clean board!

73

-----  
Date: Wed, 06 Mar 2002 10:11:35 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: hrubin1970@comcast.net, qrp-1@lehigh.edu  
Subject: [121404] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <3C8631A7.2403CC32@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

One more thought, do you want to etch a board or do you want to become a chemist? Stick to the common methods at first! You will save yourself lots of trouble!

73

-----  
Date: Wed, 06 Mar 2002 10:16:02 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: lew@paceley.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [121405] Re: 40673's  
Message-ID: <3C8632B2.4C5FEDA5@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Lew is right, 40673's and their equivalents are available. What should be stated is they should not be used for NEW designs. If you want to build one or two of an old design they are there. If you are starting out to do a NEW club project, or a NEW design, watch out!

73

-----  
Date: Wed, 6 Mar 2002 10:28:02 -0500  
From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Cc: "'dave@redhotradio.com'" <dave@redhotradio.com>  
Subject: [121406] RE: Pc Boards Got em ! but No Knowledge  
Message-ID: <F9351DA9F0F6D41187410090277B3EB304D5FCAE@ev008msxaege.ae.ge.com>

How does one produce Gerber files? I believe I've heard this term used with

some CAD software. Is there free software that one could use for this?

Mark, AA4MF

-----Original Message-----

From: Dave Fifield [mailto:dave@redhotradio.com]

Sent: Wednesday, March 06, 2002 2:59 AM

To: Low Power Amateur Radio Discussion

Subject: Re: Pc Boards Got em ! but No Knowledge

What a lot of kerfuffle! I know a much simpler way.

Simply produce a set of gerber files and then send them to AP Circuits in Canada where, for a small fee, they will make you tin plated double sided boards with through holes and ship them to you by FedEx, to arrive at your place a couple of days later.

Check them out at <http://www.apcircuits.com>

I use them all the time, for ham stuff and professionally. Prices have come down over time! Enjoy.

Cheers,  
Dave F.  
AD6A

-----  
Date: Wed, 6 Mar 2002 08:31:08 -0700  
From: "Walter AG5P" <walter@cowboy.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [121407] Re: More on the 'Miracle Whip'  
Message-ID: <200203060831.AA1611202820@mail.cowboy.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

If you would like to read how it performed at an antenna shoot-out, then go to the HF Pack website and click on Antennas. Scroll down and read how the different antennas performed against each other.

<http://www.hfpack.com/>

There are several antenna shoot-outs each year that are sponsored by various groups which gives

the antenna guru's a chance to show their expertise in mobile, portable, and fixed antennas. Try doing a 'antenna shoot-out' search on google.com or your favorite search engine. You may be surprised at what really works.

May your wire be in the air,

72/73 Walter, AG5P

-----  
Date: Wed, 06 Mar 2002 10:33:25 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: dave@redhotradio.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [121408] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <3C8636C5.22E2EB81@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dave,

>

> What a lot of kerfuffle! I know a much simpler way.

>

> Simply produce a set of gerber files

>

Sure, after you learn the software and how to produce a Gerber file!  
The process only takes about 6 months, by actual measure! Maybe I am  
dumb, and maybe you are smart, but if I need a board masking tape is  
easiest if I want it now!

73

-----  
Date: Wed, 6 Mar 2002 07:56:14 -0800 (PST)  
From: Brad Mitchell <n8yg@yahoo.com>  
To: Mark.Fancher@ae.ge.com,  
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [121409] RE: Pc Boards Got em ! but No Knowledge  
Message-ID: <20020306155614.87553.qmail@web14706.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hi Mark, and all.

Getting everything ready to have circuit boards manufactured isn't trivial, but worth the time investment. I wouldn't say 6 months, but I would say that for the first time , it would take you a good month of hobby time working at it to get something good. But don't worry about the time, because as you are doing the learning, you are having fun with new tools that are really cool if you haven't done this before.

There are many programs out there. The one that I am currently using is called EAGLE from cadsoft. (It works with Linux great, and also a version for Windoze),

It's free for any small board, unlimited nodes etc.

It does produce Gerber files, but once you produce gerber files, there is a final step that you must do, which is look at the gerber files with a gerber viewer

program. It's sort of a final check to make sure that what you've written out to this strange file format is

actually going to produce what you think it will. I think that AP circuits has a downloadable viewer , or they point to one on their web page.

Also, the drill file is important when working with AP circuits as they have a list of standard drill sizes that gets you into the cheap category. You will want to change all drill sizes to conform.

If you want to make really inexpensive boards, it's still worth the time to lay it out with a good board layout package, and then print out the artwork to a laser printer , and use whatever form of cheap transfer method you want.



If you use a computer, you can easily make changes later, and enhancements. I'm afraid that the tape, dry transfers, and indelible markers are relics of the past that really have limited usefulness in this day and age for the hobby. (unless you are perfect, and only need one of something).

Have fun,  
73  
Brad N8YG

-----  
Do You Yahoo!?  
Try FREE Yahoo! Mail - the world's greatest free email!  
<http://mail.yahoo.com/>

-----  
Date: Wed, 6 Mar 2002 11:09:27 -0500  
From: Timothy.Urban@wc.ey.com  
To: qrp-1@lehigh.edu  
Subject: [121410] WA2HQQ de KA3POY  
Message-ID: <0FBB1E881B.C5B13016-0N85256B74.00588495@ey.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: quoted-printable

Bob - you may wish to check your incoming email system - I don't believe that you have been receiving emails for several days.

Tim  
KA3POY

19634 Hoover Farm Drive  
Laytonsville, MD =A020882

cell: =A0202.236.1581

PLEASE QSL THIS PAGE, hope everything is ok with you, =A0TJU

-----  
The information contained in this message may be privileged and confidential and protected from disclosure. If the reader of this message is not the intended recipient, or an employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to the message and deleting it from your computer. Thank you. Ernst & Young LLP=

-----  
Date: Wed, 06 Mar 2002 10:18:39 -0600  
From: Pat Cain <pcain@ix.netcom.com>  
To: qrp-1@Lehigh.EDU  
Subject: [121411] FOX: Fox Announcement for 03/07  
Message-ID: <4.2.0.58.20020306095617.00c14390@mail.mchsi.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"; format=flowed  
Content-Transfer-Encoding: quoted-printable

The LAST Fox Hunt of the season will be Thursday evening. It will be a long=20  
hot summer on 40M so get your final Fox fix now.

Tom KV2X and I will be paired up as the foxes for this final session. Look=20  
for me around 7.035 to 7.037. I will be listening up 05. to 1.5 kHz. When=20  
things get quiet later in the hunt I will stay closer to my transmit=20  
frequency.

I hope there will be a full house of hounds for the last hunt.

I want to take this opportunity to thank the Fox Hunt Committee for their=20  
great work this year.

73,  
Pat K=D8PC

-----  
Date: Wed, 6 Mar 2002 10:32:40 -0600

From: <jfox6@houston.rr.com>  
To: "QRP" <qrp-1@lehigh.edu>  
Subject: [121412] Gerber  
Message-ID: <005c01c1c52c\$88953fc0\$9902a8c0@houston.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

There is a fairly comprehensive definition and Pictures of Gerber files on  
the following URL:  
[http://www.apcircuits.com/html/body\\_file\\_formats.html](http://www.apcircuits.com/html/body_file_formats.html)

73

Foxy  
jfox6@houston.rr.com  
<http://www.qsl.net/w5hir>

-----  
Date: Wed, 06 Mar 2002 17:19:30 +0100  
From: "Ingo, DK3RED" <dk3red@t-online.de>  
To: QRP-L <qrp-1@lehigh.edu>  
Subject: [121413] Need clearing up (TNX)  
Message-ID: <3C864192.45901EE0@t-online.de>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello QRPers,

Thanks to all who send me suggestion and help. Can not clearing up the  
difference, so I will make some experiments with it.

--  
72/73 de Ingo, DK3RED     Don't forget: the fun is the power!  
     dk3red@t-online.de     <http://www.qsl.net/dk3red>  
     DL-QRP-AG #824         <http://www.dl-qrp-ag.de>

-----  
Date: Wed, 6 Mar 2002 12:57:32 -0500  
From: Harris Keith E CONT CNIN <harris\_k@crane.navy.mil>  
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>  
Subject: [121414] VE9QSL  
Message-ID: <213CBBCE200DD6119CEF00B0D0D0D52E22AD93@cninnmciexch1.crane.navy.mil>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Gang,

Has anyone on this reflector ordered QSL cards from VE9QSL? I originally ordered some QSL cards from him in December, then got a email from him with a virus (which McAfee took care of) with the wrong QSL card to approve. I emailed him back and sent the correct one. I haven't heard from him since despite emailing him repeatedly. I thought someone on this list might have more information on what is happening or if this is normal. He doesn't charge for them until you get them so I'm not out any money, but I'd like to get the cards I designed. I thought maybe I could get the answer here and not have to pay for an international long distance call. Thanks for any help you can give.

73 de N9KH

-----  
Date: Wed, 06 Mar 2002 12:58:50 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: n8yg@yahoo.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [121415] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <3C8658DA.B0FDFA65@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

People who want to make circuit boards are usually of two types, experimenters and those in charge of a club project. There are many ways to get to the same point.

First, the experimenter. We have all wanted to build something for which a board is no longer available or was never offered. Sometimes we are lucky and there is a board layout in a magazine; sometimes we must start from scratch!

Starting from scratch. There are generally two ways to make a board, simple and computerized. If you choose the computer you will have a learning curve. Yes, it can be as short as you want or as long as you want, but you will still have it! If you only plan on one board every six months, it might be a pain!

But you had better count on several iterations of the board design in any case! Boards have rules, like component spacing, that you will have to face up to as you go! As far as I know, the computer systems I have

used for hobby use do not have auto spacing. If you are working by hand you can correct as you go, but you'll still have corrections!

If you are in charge of a club project, you probably have already made some boards for your own use and the problem is a little simpler. If you have no experience, I would suggest you find a club member with some experience, or have the board made by someone else. You can't believe the suffering you will avoid!

Then there is getting the board from your computer to the etching process! If you used a hand layout method, it is as simple as splash, and etch! If you want to make a file it becomes more difficult!

I use CIRCAD, there are others. My system makes a printout of the board on plain paper or selected media. Of course it will make a reverse image too! This is a time saver - you can lay out the board from above and then print the copper image!

Yes, Gerber files are also available. I have never used them, so I cannot comment on whether I would want to use them for a prototype board or not! If I was building one of a kind, for my own use, why would I want to? I seldom do anything because it is fun anymore! If I was doing a project, I would find someone who knew what he was doing!

And last but but least, you have the etching process. Etching chemicals can be very dangerous. If you live in a People's Republic like I do, you want to be very careful about where you dump the chemicals after you are done! Most places it is illegal to contaminate even the waste water, and the fines are large! And your chemicals will be exhausted some day!

So, in short, I heartily recommend making your own PC boards. I also heartily recommend thinking about what you are doing and choosing the easiest way to get there!

73

-----

Date: Wed, 6 Mar 2002 13:15:15 -0500  
From: Bill Coleman <aa4lr@arrl.net>  
To: <carlseye@tampabay.rr.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [121416] Re: coax  
Message-ID: <1020206131511.NAA00425@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 3/3/02 4:43 PM, carl seyersdahl at carlseye@tampabay.rr.com wrote:

> I seem to have lost my list of coax cable suppliers and now I need a few  
> feet of teflon coax the same size as RG174. who knows where to find it???

Wireman. <<http://www.thewireman.com/>>

You looking for RG-316? It's almost as small as RG-174.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net

Quote: "Not within a thousand years will man ever fly!"

-- Wilbur Wright, 1901

-----  
Date: Wed, 06 Mar 2002 12:23:57 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: ermisch@usa.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [121417] Re: OT: 'true RMS' measurement  
Message-ID: <3C865EBD.391E7396@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Paul, a true rms meter will in some instances give a more correct reading than a conventional non-true-rms meter, and in other situations will give the same reading. The type of meter you are describing is usually not usable at r-f. It is possible to build an r-f "probe" for use with a conventional high-input-impedance digital multimeter that can be calibrated to read rms voltage, from which r-f power can be calculated.

The deciding factor is the waveform of the "ac" being measured.

If, and that is a big if, the waveform is a clean sinewave, then it is possible to make a conventional d-c analog multimeter read "ac" by first rectifying and filtering the incoming ac to obtain a dc voltage that is proportional to some aspect of the ac signal. Usually, the filter components are arranged, together with scaling resistors and capacitor values, to obtain a dc voltage that is proportional to the peak value of the ac. However, that is not a requirement since in any event the printed AC scale on the meter will have to be calibrated to read "rms ac" since that is usually the ac voltage value that is desired from a meter.

As long as the waveform is a sinewave, a scale can be made that will allow the meter reading to be reasonably accurate in reporting the rms voltage applied to the meter. However, if a non-sinusoidal waveform is involved,

then the scaling components and printed meter scale no longer "work" and the value shown on the meter is not an accurate reading of the rms value of the ac voltage.

"True rms" meters actually incorporate a computing function that analyzes the incoming waveform and calculates the actual rms value which is then displayed on the digital readout. There are analog true rms meters but they are of a past generation and were quite bulky and expensive in their time. Today with integrated circuits and LED/LCD readouts, it is much cheaper and easier.

So, to summarize, a conventional meter reading ac almost always has its calibration based upon the assumption that the waveform is sinusoidal. A true rms meter will calculate the actual rms value of the ac voltage and present that on its readout, regardless of waveshape.

Now, as to which is better for r-f? Here it gets muddy since you did not give the frequency range for the meter you have found. My experience has been that most portable meters with true rms indications are limited to audio frequencies up to perhaps a few thousand Hz at the most. There are instruments specifically designed to read r-f rms voltages up to high frequency limits, but these are not likely to be found in the usual inexpensive portable form.

For r-f power measurements in amateur radio, it is common to use a "power meter" specifically designed to measure power at r-f. There are a number of wattmeters available for HF and even VHF/UHF work that are appropriate for amateur use and are reasonably inexpensive. Most of them, however, lack accuracy in the power range used for QRP: 5 watts or less.

Special meters such as the WM-2 have been developed for QRP work and they are reasonably accurate. But, they are restricted to sinewave signals in reading average power. Steve Weber, KD1JV, used to offer a 10-watt digital power meter that is quite accurate and offers the unique capability of reading average power for any waveform, sinewave or not, which means that it can accurately measure the actual average power level of, say, an SSB or any other modulated signal.

Usually the most accurate approach for the ham who has access to a well-calibrated oscilloscope, and is willing to be restricted to single-frequency sinewave signals, is to measure the peak-to-peak voltage of the waveform and convert that into the average power being delivered to whatever resistive load is being used for the voltage measurement.

Bottom line is that it is unlikely that the meter you have found will operate at rf at all. If it did, however, and you wanted to measure voltages with other than sinusoidal waveforms, then a "true rms" meter would be required for an accurate indication.

72/73/00, George W5YR - the Yellow Rose of Texas  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR, in the 56th year and it just keeps getting better!  
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735  
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

All outgoing email virus-checked by Norton Anti-Virus 2002

"P.Ermisch" wrote:

>  
> Am seeing some good deals on some test equipment but have some questions I was  
> hoping the kind people of this list might answer.  
>  
> Will a 'true RMS' meter give a 'more accurate' measurement of RF voltage?  
> Electronics theory is still a little muddy for me so excuse me if that was a  
> dumb question. Found a good deal on a digital MM with TRMS. Can TRMS  
> measurement be made with some homebrew attachment and a less expensive MM?  
> For what other purposes would TRMS measurement be useful?

-----  
Date: Wed, 06 Mar 2002 11:43:53 -0500  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [121418] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <3.0.6.32.20020306114353.007a7540@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>But, almost every house has steel wool under the sink! Not as many have  
>pumice stone! The end result is the same, a clean board!  
>  
True, but steel wool isn't the best thing to use to clean a board with, it  
scratches the surface too much. If you do use steel wool, it should be very  
fine stuff, and have no soap in it. You DONT want to use the stuff commonly  
found under the sink!

A better choice is a "Sctoch Bright" pad. Also, after scrubbing the board,  
wipe it down several times with Isopropal alchohol, which removes all the  
microscopic dust left on the board and any lingering oils. If the board is  
in really rough shape, I'll start with a copper cleaner first.



Steve, KD1JV  
"Melt Solder"  
White Mountains of New Hampshire  
<http://www.qsl.net/kd1jv/>

-----  
Date: Wed, 06 Mar 2002 12:26:33 -0500  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [121419] RE: Pc Boards Got em ! but No Knowledge  
Message-ID: <3.0.6.32.20020306122633.007a8100@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>There are many programs out there. The one that I  
>am currently using is called EAGLE from cadsoft.  
>(It works with Linux great, and also a version for  
>Windoze),  
>

I downloaded the trial "Eagle lite 4.0" package the other day.  
<http://www.cadsoftusa.com>

It's quite the program, but dang, do I hate CAD programs for Windows! Hope you have a 19" or 21" monitor! I only have a 15" and the drawing window isn't very big and if there is an autopan I haven't found it yet. On the plus side, it will make Gerber files, something many trial board programs don't do, but you are limited to a fairly small board. The other nice thing about the program is that you can export the file in .bmp format, which you can then use on a web page. Even though I find the program a pain in the butt to use at the moment, that feature alone is worth the effort.

72,  
Steve, KD1JV  
"Melt Solder"  
White Mountains of New Hampshire  
<http://www.qsl.net/kd1jv/>

-----  
Date: Wed, 6 Mar 2002 12:40:12 -0600  
From: "Ham" <KD5NWA@mbayona.com>  
To: <tentec@contesting.com>, <qrp-l@Lehigh.EDU>  
Subject: [121420] TenTec Corsair Filters  
Message-ID: <00ad01c1c53e\$5ad81780\$373d010a@a000>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello, I just purchased a Corsair and was wondering if anyone on the list had filters for that unit for sale. In particular I'm looking for the following filters

Inrad 750	400 Hz	6.3 MHz
Inrad 758	2.1 KHz	6.3 MHz

Tentec #285	500 Hz	6.3 MHz
Tentec #288	1.8 KHz	6.3 Mhz
Tentec #220	2.4 KHz	9.0 MHz

Also can I substitute a Inrad 756 filter ( 2.1 KHz @ 9 MHz) filter for the internal one so I can have steeper skirt on the radio's passband?

Please answer to my address only.

Thanks

Cecil  
KD5NWA

-----  
Date: Wed, 6 Mar 2002 10:33:56 -0800 (PST)  
From: Brad Mitchell <n8yg@yahoo.com>  
To: Bruce Muscolino <w6toy@erols.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121421] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <20020306183356.39485.qmail@web14706.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Bruce, I think we found the problem. :-)  
That's a joke Bruce.. :-)  
73 Brad  
N8YG

--- Bruce Muscolino <w6toy@erols.com> wrote:  
> I seldom do anything because it is fun  
> anymore!

-----  
Do You Yahoo!?

Try FREE Yahoo! Mail - the world's greatest free email!  
<http://mail.yahoo.com/>

-----  
Date: Wed, 06 Mar 2002 13:38:05 -0500  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-1@lehigh.edu  
Subject: [121422] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <5.1.0.14.1.20020306132109.00a62ec0@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:58 PM 3/6/2002 -0500, you wrote:

>Yes, Gerber files are also available. I have never used them, so I  
>cannot comment on whether I would want to use them for a prototype board  
>or not! If I was building one of a kind, for my own use, why would I  
>want to? I seldom do anything because it is fun anymore! If I was  
>doing a project, I would find someone who knew what he was doing!

Bruce,

Gerber files are pretty much a necessity if you're going to have a commercial board house fabricate your boards. The decrease in prices for even prototype quantities over the past few years is due partly to the high level of automation that board fabricators use these days. If you try sending them a hand-drawn or taped artwork, you won't get much of a response. (Maybe some laughter or head scratching.)

I agree with everything else you said - if you're doing one board for a personal project and don't expect to reproduce it, a hand-drawn board is the least expensive way to go. If you're going to make more than one or two, or want to make a more later on, using a computer lets you save your work and reproduce it accurately later. (I might add, if one is silly enough to use surface mount ICs like me, a computer layout is highly recommended.) Doing large quantities of boards for a club project warrants having a board house make them, in which case a computer layout is necessary. It's also easier on your home environment, since you're not trying to dispose of 20 boards' worth of spent etchant.

Dave

-----  
"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton  
Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Wed, 06 Mar 2002 13:48:10 -0500  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-1@lehigh.edu  
Subject: [121423] RE: Pc Boards Got em ! but No Knowledge  
Message-ID: <5.1.0.14.1.20020306133946.00a76ec0@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:26 PM 3/6/2002 -0500, you wrote:

>I downloaded the trial "Eagle lite 4.0" package the other day.  
><http://www.cadsoftusa.com>

>

>It's quite the program, but dang, do I hate CAD programs for Windows! Hope  
>you have a 19" or 21" monitor! I only have a 15" and the drawing window  
>isn't very big and if there is an autopan I haven't found it yet. On the  
>plus side, it will make Gerber files, something many trial board programs  
>don't do, but you are limited to a fairly small board.

Steve,

I notice their board size limit still fits nicely in an Altoids box.

> The other nice thing  
>about the program is that you can export the file in .bmp format, which you  
>can then use on a web page. Even though I find the program a pain in the  
>butt to use at the moment, that feature alone is worth the effort.

FWIW, CIRCAD Lite lets you export a BMP as well. It's hidden in the Printer  
Out selection of the File menu. There's a little checkbox that says "BMP to  
Disk." I use it to panelize a layout so I don't have to waste a whole sheet  
of toner transfer paper for one board.

Dave

-----  
"You can fool some of the people all of the time. That's enough to make a  
living." - Lance Burton  
Dave Hinerman  
WD8CIV@worldnet.att.net  
-----

Date: Wed, 06 Mar 2002 13:57:40 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: Brad Mitchell <n8yg@yahoo.com>, qrp-1@lehigh.edu  
Subject: [121424] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <3C8666A4.3120B6D6@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

And I'll bet you're proud of yourself for telling everyone again! In case you didn't get the point, I have better things to do than learn seventeen hundred software programs just to do one simple thing! If you enjoy doing that, you must be a lot younger than I am! Frankly there are lots more fun things to do, like getting on the air!

73

-----  
Date: Wed, 06 Mar 2002 14:01:17 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: WD8CIV@worldnet.att.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [121425] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <3C86677D.44AFF6B9@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

David

But I specifically said ONE OF A KIND boards. If you are embarking on a project that requires production quantity boards laying them out by hand would be prohibitive! Then you could learn the software or investigate other approaches! Just common sense!

73

>  
> Gerber files are pretty much a necessity if you're going to have a  
> commercial board house fabricate your boards. The decrease in prices for  
> even prototype quantities over the past few years is due partly to the high  
> level of automation that board fabricators use these days. If you try  
> sending them a hand-drawn or taped artwork, you won't get much of a  
> response. (Maybe some laughter or head scratching.)  
>  
>

-----  
Date: Wed, 06 Mar 2002 19:06:30 GMT  
From: Thomas Jennings <jennings@eznet.net>  
To: qrp-1@lehigh.edu  
Subject: [121426] FOX: KV2X Fox Announcement  
Message-ID: <20020306190630.603.qmail@eznet.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="us-ascii"

Hi y'all Hounds!

This fox will be out and around Thursday evening at 9:00 PM! I will be around 7041 - 7045 and will be listening up 1 - 3 Khz and will only tune to my xmit freq when things slow down (if they do).

The rig will be a TS850 at 5W to a 40 meter quarter wave ground mounted vertical.

As a reminder the exchanges will be:

Fox to hound:

your call 559 NY TOM 5W your call

Hound to fox:

your call 559 SPC Name pwr bk

Finally Fox will reply:

TU or TU QRZ DE KV2X /FOX

I hope the band will be in great shape during the entire hunt,  
all sigs are nice and strong,  
and the final hunt of the season is a blast!!!

GL ES 73

TOM

-----  
Date: Wed, 06 Mar 2002 14:08:16 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: kd1jv@moose.ncia.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [121427] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <3C866920.F57A3872@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Everything you say is true, but it really depends on what you are making

the board for. If you are using lots of DIPs or SMDs, then steel wool is not the best choice. However, the boards I have made and the boards I may make use discrete components and steel wool works quite well.

I buy fine grade steel wool at Home Depot. I have also used Brillo pads with little problem. Wiping with Isopropyl alcohol is a good idea, but isn't really necessary!

73

-----  
Date: Wed, 6 Mar 2002 14:20:31 -0500  
From: Bill Coleman <aa4lr@arrl.net>  
To: <alan.kaul@att.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [121428] RE: Early morning DX?  
Message-ID: <1020206142026.0AA07724@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 3/5/02 6:21 PM, alan.kaul@att.net at alan.kaul@att.net wrote:

>o late to Bed,  
>Early to Rise,  
>Better for DX,  
>What a surprise!  
>  
>(that's why testers are heavily into caffeine!)

Naw, testers just give up sleep altogether....

Bill Coleman, AA4LR, PP-ASEL            Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

-----  
Date: Wed, 6 Mar 2002 09:54:25 -0500 (EST)  
From: <n2go@arrl.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [121429] FS test equipment  
Message-ID: <Pine.LNX.4.33.0203060920100.1936-100000@valhalla.v>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

FLUKE / PHILIPS PM 2534 High accuracy system voltmeter.  
Excellent condition with manual and probes. \$175

Hewlett Packard RF Signal Generator. HP-8640M Mounted in transit case  
500khz- 512Mhz has 6 digit display , output -144 to +19DBM  
It has other features but I have only used it as a sig generator. The  
signal looks real nice on a scope. Attenuator seems to work as it should.  
Super ham toy.  
(definitely not a lightweight at 70 lbs) \$350

Commercial variable lab power supply  
0-40V 0-2A Model Sorensen QRD40-2  
\$50

Hewlett Packard wide range oscillator  
Model HP200CD  
It has very nice waveform on output  
\$50

Multimeter.VTVM  
Rugged military type with probes  
Big analog meter Model ME 26B/U \$45

I need to sell some toys before I can buy more toys. The management here  
is tough. :) I used to think that the one with the most toys at the end  
wins but my wife thinks otherwise :(

I could give someone a good deal on small fragment bone reductions set  
with big assortment of titanium screws and precision equipment if  
anybody want to fix some broken bones. Great for a hand guy or vet out in the  
boonies.( or the DIY guys with bad insurance) Just ask :))

73,

Jim n2go

-----  
Date: Wed, 06 Mar 2002 14:41:23 -0500  
From: Pete Burbank <plburbank@kih.net>  
To: qrp-l@lehigh.edu  
Subject: [121430] PCB etchant  
Message-ID: <5.0.2.1.0.20020306133518.00ac5420@KIH.net>



Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I'm not a chemist but do enjoy experimenting. I thought the ferric chloride could be reclaimed by reversing the process so after etching a couple boards I put the solution in a plastic container, connected a (12v) one Amp trickle battery charger to 2 carbon rods and ran a current through the solution for a few hours. One carbon rod had a glob of copper on it at the end of the experiment. No way to weigh it but it looked like about the same amount that was etched off the boards. The ferric chloride was quite vigorous when I inserted a test piece of scrap PCB. In terms of measurement it was truly an amateur experiment but it is better than dumping the etchant. My etchant is back in the bottle and ready for making another board. This is the sort of experiment that is best conducted outdoors on a warm day. :-)

Perhaps others have tried this and I'm open to any comments.

73

Pete NV4V

-----  
Date: Wed, 06 Mar 2002 20:35:58  
From: "Brad Hernlem" <alihernlem@hotmail.com>  
To: plburbank@kih.net  
Cc: qrp-1@lehigh.edu  
Subject: [121431] Re: PCB etchant  
Message-ID: <F14600dSdVudU5N3Fwt0000bfff8@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

OK, let's see ...

You probably have the following cathode reaction:

$$\text{Cu}^{++} + 2\text{e}^{-} \rightarrow \text{Cu}$$

and also some:

$$2\text{H}^{+} + 2\text{e}^{-} \rightarrow \text{H}_2$$

and at the anode:

4OH- ----> O2 + 2H2O + 4e-

Now, because some of the cathode electrons will go to reducing copper ions to copper metal (removing it from solution) there will be less than stoichiometric removal of H+ than the OH- removed at the anode. This means that the pH will go down (more acidic). You will NOT, however, be replenishing any Fe+++ except perhaps from what iron may still be available in solution as Fe++ (that oxidation would be taking place at the anode but the reduction reaction could also take place at the cathode ... net result, nothing).

Might be better to use an iron anode.

Brad

Pete Burbank (plburbank@kih.net) writes:

-----

I'm not a chemist but do enjoy experimenting. I thought the ferric chloride could be reclaimed by reversing the process so after etching a couple boards I put the solution in a plastic container, connected a (12v) one Amp trickle battery charger to 2 carbon rods and ran a current through the solution for a few hours. One carbon rod had a glob of copper on it at the end of the experiment. No way to weigh it but it looked like about the same amount that was etched off the boards. The ferric chloride was quite vigorous when I inserted a test piece of scrap PCB. In terms of measurement it was truly an amateur experiment but it is better than dumping the etchant. My etchant is back in the bottle and ready for making another board. This is the sort of experiment that is best conducted outdoors on a warm day. :-)

Perhaps others have tried this and I'm open to any comments.

73

Pete NV4V

-----

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

-----  
Date: Tue, 05 Mar 2002 15:46:54 -0500  
From: "Brice D. Hornback" <bdh@cyberbound.net>  
To: qrp-1@Lehigh.EDU  
Subject: [121432] Tiny-Tornado Kit Update  
Message-ID: <00eb01c1c486\$e264c080\$7101a8c0@lwrnc1.in.home.com>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Hello everyone. Due to a death in the family, there have been some delays getting all the parts ordered. I've already ordered and received most of the stuff but I'm still in the process on some. I apologize for the delays. I know you're all anxious to get the kits, build them, and put them on the air... and I'm doing my best to hurry. Please be patient with me.

I've also added a couple extra holes to the PCB. I haven't had a chance to fully test it, but there is a article in the March 2002 issue of QST (page 57) by WA9RDT on building a very simple active filter into the LM386 to reduce hiss. It uses two parts between pins 1 and 8 instead of the 10uF cap. I won't be supplying the two parts (a capacitor and an inductor) because like I said.. I haven't fully tested it, but the holes will be there on the board for you to experiment with.

Watch the home page of the QRPp-I.com web site for updates and shipping status. Thank you.

73/72/71! de Brice KA8MAV

-----  
Date: Wed, 6 Mar 2002 14:59:31 -0600  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: "Bob Duckworth" <wb4mnf@atl.org>  
Cc: <qrp-1@Lehigh.EDU>  
Subject: [121433] Ladder line vs. coax  
Message-ID: <007701c1c551\$f0d861a0\$4e100a0a@rohredt2000>

Bob,  
I happened to be in the 1995 ARRL Handbook today where they had an easier to understand comparison of coax vs. parallel line.

First of all, I usually use ladder line, Insulated window line at Field Day with no apparent losses, to big 1.25 wave or larger loops, and get "strongest signal on the band" reports from both coasts to central US. I

imagine there is marginal advantage to true bare wire parallel line, if you can find suitable insulators, etc. But harder to handle, as it shorts out if twisted too much, etc.

ARRL cites a 100 foot non resonant dipole used center fed on all bands.

On 160m, its center impedance results in greater than 1000 to 1 SWR to 50 ohm coax, and the loss is 25.4 dB. The loss to parallel line, 450 ohm, is only 1.4 dB. (I am taking this from memory). the loss varies with bands and is not too bad on some bands for coax, but is usually less than 0.5 dB for parallel line, except 30m where both are bad, and the high end of 10 m. In many of the ham bands, the loss using coax uses up half or more of the available power.

Most loops are going to be 200 ohms at the feed point, and this can vary with elevation of the loop.

It is well worthwhile to feed loops with ladder line, or parallel line over coax of any size commonly used by hams.

Of course, matching coax stubs can be used as single band solutions, but the whole advantage of a large loop is multiband use with gain. The gains overcome any issues of commercial t match use.

72,

Stuart K5KVH

-----  
Date: Wed, 6 Mar 2002 11:22:28 -0500 (EST)  
From: <n2go@arrl.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [121434] FS Electroplater  
Message-ID: <Pine.LNX.4.33.0203061108590.2057-1000000@valhalla.v>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a commercial electroplater unit (don't ask :))

I has two huge simpson meters to monitor voltage and current.

Vary above by POWERSTAT mounted on front.

The unit runs on 115V and is rated at 0-8V at 25A

Actually it has a handle and is portable but heavy. About the size of a small guitar amp.

Time to get those projects anodized or plated or

your harley all chromed out or Rolexxx looking like new :)

Quit complaining about the chrome plating and do it yourself.

Price      \$125

73,

Jim n2go

-----  
Date: Wed, 06 Mar 2002 13:11:52 -0800  
From: Norm Melick <henmel@worldnet.att.net>  
To: qrp-l@Lehigh.EDU  
Subject: [121435] Re: FS: HW-99  
Message-ID: <3C868618.83D7156F@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The HW-7 is sold.

-----  
Date: Wed, 6 Mar 2002 13:22:54 -0500  
From: "Tracy Markham" <tracy@bytemark.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [121436] FCC & ULS  
Message-ID: <NFBBKLDHALEHCJMAJPKFKEJACMAA.tracy@bytemark.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

On topic enough that without a license ya can't do QRP, Right?

Last week I went to [www.fcc.gov](http://www.fcc.gov) and put in a change of address in the ULS portion of their site. Saturday I received a letter in the mail stating that my application had been rejected, license revoked and ordered to stop any operation of my station. The reason listed was that I had not filed in a timely manner.

I checked the status online, and it clearly showed that my license was valid until 2010. I've written them an email but got no response, so today I called and a nice young lady there got it all straightened out.

I used the wrong form online to do the change, and their system took it as a fraudulent act and immediately took action. That robot system is mean! Lol. The moral of this story is to be careful when using the electronic filing system at the FCC. Soon it will be the only way to renew / modify your

license, so it will be a necessary evil to learn the system.  
Tonite I get back on the air! Look for me somewhere on 10 meters.  
Tracy N4LGH (legally!)

-----  
Date: Wed, 6 Mar 2002 15:46:34 -0500 (EST)  
From: Philip L Carter <pcarter@gcfn.org>  
To: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121437] RE: Pc Boards Got em ! but No Knowledge  
Message-ID: <Pine.3.07.10203061531.A7321-a1000000@acme>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello all:

I have found easytrax for DOS (a Protel freebe now included on many shareware electronics cd's) to be a good choice. Multilayers (last one I did was 5 layers), autorouting, etc, and does make usable Gerber files. Learning time was about 3 hours. Program runs 640x480 full screen so you can see it even on a 15" monitor. It's not the choicest program, but the price is right.

This is how the MPX 40 receiver board was done.

Once you have the correct Gerber files (which can be proofed on Camvu (from Innovedia free for the download) there are prototype houses that charge \$34 for 2 boards delivered in less than 1 week.

I would not recommend any other method if you must have a 2 or more layer board.

There are people out there to help you lay out the board so you can still have fun with some projects.

72,  
Phil

NRE/COLE Test Center OH-3  
pcarter@gcfn.org or wd8qwr@arrl.net  
Philip L. Carter, WD8QWR  
wd8qwr@w8cqk.#cmh.oh.usa.na

-----  
Date: Wed, 6 Mar 2002 16:53:47 -0500  
From: "John J. McDonough" <wb8rcr@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Cc: <kandrparker@sympatico.ca>  
Subject: [121438] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <004501c1c559\$665210a0\$010044c0@chartermi.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

NO NO NO!

----- Original Message -----

From: "ZOOM" <kandrparker@sympatico.ca>  
Subject: Re: Pc Boards Got em ! but No Knowledge

> 30% HCL can be bought at most hardware stores. Just add water to bring  
the  
> concetration down to near 10%.

Don't you remember your high school chemistry? Never add water to acid.  
OK, OK, probably HCL isn't going to exotherm very badly, especially at 30%,  
but as a matter of practice, add your acid to water.

Why you ask? When you mix water and acid, there is substantial heat  
liberated. If you add the water to acid, the acid can boil, splattering you  
with acid. Generally, not a good thing. If you add acid to water, it's  
quite dilute to start, so probably won't liberate enough heat to boil  
anything, but even if you are reckless enough to add it too fast, what you  
are going to get sprayed with is mostly water.

Now to tell you the truth, I don't think this is much of a problem with  
hydrochloric, it's a big deal with sulfuric. And it's obviously less of a  
problem with dilute acids, I've never known vinegar to boil when I add  
water. Nevertheless, always make it a habit to add the acid to water rather  
than the other way around, and do it slowly.

72/73 de WB8RCR      <http://www.qsl.net/wb8rcr>  
didileydadidah      QRP-L #1446 Code Warriors #35

-----  
Date: Wed, 6 Mar 2002 16:55:08 -0500

From: "John J. McDonough" <wb8rcr@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Cc: <ne4o@swbell.net>  
Subject: [121439] Re: JAN QQ  
Message-ID: <004b01c1c559\$9d314e60\$010044c0@chartermi.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Jim (or somebody) just posted in the past couple of days that they are way behind. Seems like he said April.

72/73 de WB8RCR      <http://www.qsl.net/wb8rcr>  
didileydadidah      QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "DENNIS SMITH" <ne4o@swbell.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Tuesday, March 05, 2002 10:33 PM  
Subject: JAN QQ

> Has anyone got their jan qq yet?  
> Or do you know when they will ship?  
> dennis w5vaf  
>

-----  
Date: Wed, 6 Mar 2002 16:58:08 -0500  
From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121440] Ducie Island  
Message-ID: <F9351DA9F0F6D41187410090277B3EB304D5FCBB@ev008msxaege.ae.ge.com>

Anyone heard any updates about this operation lately?

Mark, AA4MF

-----  
Date: Wed, 6 Mar 2002 16:07:04 -0600  
From: "Rob Matherly" <kc0bom@arrl.net>  
To: "Scan Iowa" <scaniowa@yahooogroups.com>,  
        "Amateur Repairs" <amateur-repairs@yahooogroups.com>,  
Subject: [121441] Fw: Proper Posting To This List



Message-ID: <011501c1c55b\$41fbc780\$0a11a541@intern01>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Lol, this holds true on so many lists I've been on ;^)

72/73/oo

Rob, kc0bom

ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPP-I #19

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Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 --- MSN - jimrob@jetnetinc.net

Y! - kc0bom --- ICQ - 114690148

----- Original Message -----

From:

To: <boatanchors@mailman.qth.net>

Subject: [Boatanchors] Proper Posting To This List

When I accidentally discovered what is shown below, I got quite an ironic chuckle out of it. It is far more truth than fiction. If you have administrated a mail list, I am sure you will be able to relate to this. Enjoy, but think about the truth therein also.

How many Internet mail list subscribers does it take to change a light bulb?

1,331.

1 to change the light bulb and to post to the mail list that the light bulb has been changed,

14 to share similar experiences of changing light bulbs and how the light bulb could have been changed differently,

7 to caution about the dangers of changing light bulbs,

27 to point out spelling and grammar errors in posts about changing light bulbs,

53 to flame the spell checkers,

156 to write to the list administrator complaining about the light bulb

discussion and its inappropriateness to this mail list,

41 to correct spelling in the spelling and grammar flames,

109 to post that this list is not about light bulbs and to please take this email exchange to alt.light.bulb,

203 to demand that cross posting to alt.grammar, alt.spelling and alt.punctuation about changing light bulbs be stopped,

111 to defend the posting to this list saying that we all use light bulbs and therefore the posts **\*\*are\*\*** relevant to this mail list,

306 to debate which method of changing light bulbs is superior, where to buy the best light bulbs, what brand of light bulbs work best for this technique, and what brands are faulty,

27 to post URLs where one can see examples of different light bulbs,

14 to post that the URLs were posted incorrectly, and to post corrected URLs,

3 to post about links they found from the URLs that are relevant to this list which makes light bulbs relevant to this list,

33 to concatenate all posts to date, then quote them including all headers and footers, and then add "Me Too.",

12 to post to the list that they are unsubscribing because they cannot handle the light bulb controversy,

19 to quote the "Me Too's" to say, "Me Three",

4 to suggest that posters request the light bulb FAQ,

1 to propose new alt.change.light.bulb newsgroup,

47 to say this is just what alt.physic.cold\_fusion was meant for, leave it here.

-----

Date: Wed, 6 Mar 2002 17:07:31 -0500  
From: "ZOOM" <kandrparker@sympatico.ca>  
To: <wb8rcr@arrl.net>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [121442] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <009f01c1c55b\$561cac20\$99a4fea9@robertpa>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

YES YES YES

A valid point ;0)

Anyway the instructions for deluting the HCL is marked on the bottle so follow that and you'll be safe I hope.

----- Original Message -----

From: John J. McDonough <wb8rcr@arrl.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Wednesday, March 06, 2002 4:53 PM  
Subject: Re: Pc Boards Got em ! but No Knowledge

> NO NO NO!

>

> ----- Original Message -----

> From: "ZOOM" <kandrparker@sympatico.ca>

> Subject: Re: Pc Boards Got em ! but No Knowledge

>

>

> > 30% HCL can be bought at most hardware stores. Just add water to bring  
> the

> > concetration down to near 10%.

>

> Don't you remember your high school chemistry? Never add water to acid.

> OK, OK, probably HCL isn't going to exotherm very badly, especially at  
30%,

> but as a matter of practice, add your acid to water.

>

> Why you ask? When you mix water and acid, there is substantial heat  
> liberated. If you add the water to acid, the acid can boil, splattering  
you

> with acid. Generally, not a good thing. If you add acid to water, it's

> quite dilute to start, so probably won't liberate enough heat to boil

> anything, but even if you are reckless enough to add it too fast, what you  
> are going to get sprayed with is mostly water.

>

> Now to tell you the truth, I don't think this is much of a problem with

> hydrochloric, it's a big deal with sulfuric. And it's obviously less of a

> problem with dilute acids, I've never known vinegar to boil when I add  
> water. Nevertheless, always make it a habit to add the acid to water  
rather  
> than the other way around, and do it slowly.  
>  
> 72/73 de WB8RCR <http://www.qsl.net/wb8rcr>  
> didileydadidah QRP-L #1446 Code Warriors #35  
>

-----  
Date: Wed, 6 Mar 2002 14:22:04 -0800  
From: Mark Schoonover <schoon@amgt.com>  
To: "'kandrparker@sympatico.ca'" <kandrparker@sympatico.ca>,  
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121443] RE: Pc Boards Got em ! but No Knowledge  
Message-ID: <BF889CEBEFD2D511B993009027F60ABE1554AA@AG-JASMINE-NT4>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Is it on the bottom of the bottle?? :)

--{ Mark E Schoonover KA6WKE  
--{ Senior Hacker, IS Gopher, Hardware Fiend  
--{ American Geotechnical  
--{ <http://www.qsl.net/ka6wke>  
--{ ka6wke@amsat.org

-----  
Date: Wed, 06 Mar 2002 17:23:22 -0500  
From: Fred Lesnick <flesnick@tbaytel.net>  
To: drgary@urx.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121444] Re: CUB FOX - Thanks Art!  
Message-ID: <3C8696DA.524A359E@tbaytel.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks to every one for all the kind words and support. Yes , we had everything under control, and fixed everything up. Our biggest problem is we live 40 minutes from the city, so had to drive to my sisters to help her out. But managed to fix the problem, and alas, all is good. THANKS Art for stepping in, and glad you had fun.

72 all:  
Fred  
VE3FAL

"Gary O. Lyons" wrote:

>  
> I finally had a chance to sit down at the rig around 0335Z. Tuned across  
> the most likely spot for Fred and found Art. I promptly worked him with  
> 500mw.  
>  
> Then a few minutes ago I finally managed to get caught up on QRP-L. Fred, I  
> sure hope the family situation was easily resolvable.  
>  
> Art, thanks a bunch for filling in at literally the last minute. Your extra  
> effort is definitely appreciated.  
>  
> 72/73,  
> Gary/NQ7T

-----  
Date: Wed, 06 Mar 2002 17:23:50 -0500  
From: John Wagner <john@wagner-usa.net>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [121445] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <B8AC0126.6F7%john@wagner-usa.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

Gang,

This may seem like a dumb question, but...

Why would a hobbyist like myself want to etch a board?

I started building with kits (and prefab boards) and moved on to Manhattan style building. It seems to me that Manhattan style removes the need to;

1. Learn new and possibly frustrating software programs.
2. Avoid messy (possibly dangerous?) chemicals.

And it:

1. Speeds construction.
2. Promotes experimenting.
3. Makes it easier to troubleshoot.

So why would someone who isn't designing a production run of a kit/product bother?

73,

John, N1QO

```
>
> YES YES YES
> A valid point ;0)
> Anyway the instructions for deluting the HCL is marked on the bottle so
> follow that and you'll be safe I hope.
>
>
>
> ----- Original Message -----
> From: John J. McDonough <wb8rcr@arrl.net>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Sent: Wednesday, March 06, 2002 4:53 PM
> Subject: Re: Pc Boards Got em ! but No Knowledge
>
>
>> NO NO NO!
>>
>> ----- Original Message -----
>> From: "ZOOM" <kandrparker@sympatico.ca>
>> Subject: Re: Pc Boards Got em ! but No Knowledge
>>
>>
>>> 30% HCL can be bought at most hardware stores. Just add water to bring
>> the
>>> concetration down to near 10%.
>>
>> Don't you remember your high school chemistry? Never add water to acid.
>> OK, OK, probably HCL isn't going to exotherm very badly, especially at
> 30%,
>> but as a matter of practice, add your acid to water.
>>
>> Why you ask? When you mix water and acid, there is substantial heat
>> liberated. If you add the water to acid, the acid can boil, splattering
> you
>> with acid. Generally, not a good thing. If you add acid to water, it's
>> quite dilute to start, so probably won't liberate enough heat to boil
>> anything, but even if you are reckless enough to add it too fast, what you
>> are going to get sprayed with is mostly water.
>>
>> Now to tell you the truth, I don't think this is much of a problem with
```

>> hydrochloric, it's a big deal with sulfuric. And it's obviously less of a  
>> problem with dilute acids, I've never known vinegar to boil when I add  
>> water. Nevertheless, always make it a habit to add the acid to water  
> rather  
>> than the other way around, and do it slowly.  
>>  
>> 72/73 de WB8RCR <http://www.qsl.net/wb8rcr>  
>> didileydadidah QRP-L #1446 Code Warriors #35  
>>  
>  
>

-----  
Date: Wed, 06 Mar 2002 16:56:45 -0500  
From: "Mike Melland" <w9wis@charter.net>  
To: n2go@arrl.net, qrp-l@lehigh.edu  
Subject: [121446] Re: FS test equipment  
Message-ID: <web-1630903@dc-mxdb06.cluster1.charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="ISO-8859-1"; format="flowed"  
Content-Transfer-Encoding: 8bit

>Multimeter.VTVM  
>Rugged military type with probes  
>Big analog meter Model ME 26B/U \$45

Big and nice ..... If I remember right the ME-26B/U was  
the same as the HP-410 inside.

Mike

--  
Michael Melland, W9WIS  
Winneconne, WI USA

-----  
Date: Wed, 06 Mar 2002 17:19:11 -0500  
From: W2AGN <w2agn@pobox.com>  
To: Rob Matherly <kc0bom@arrl.net>,  
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [121447] Changing the Subject....  
Message-ID: <02030617191100.12391@jsielke>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

On Wednesday 06 March 2002 17:07, Rob Matherly wrote:

> Lol, this holds true on so many lists I've been on ;^)

>

> 72/73/oo

> Rob, kc0bom

> ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPp-I #19

--

You were talking about going for a Vanity Call. Well, they finally tracked down the Dummer that has been holding up the works since October. They got a new application filed.....and it was dismissed!

The good news is, the system is going again. They seem to expect to be caught up in a few days...

(Before you bleeding hearts yell at me for calling the guy "Dummer" That's his name!)

-----

John L Sielke W2AGN

w2agn@pobox.com

<http://mywebpages.comcast.net/w2agn>

Trustee: W3IYQ

-----

Date: Wed, 6 Mar 2002 16:31:33 -0600

From: "Rob Matherly" <kc0bom@arrl.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [121448] Re: Changing the Subject....

Message-ID: <018001c1c55e\$ae1fc580\$0a11a541@intern01>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

"(Before you bleeding hearts yell at me for calling the guy "Dummer"  
That's his name!)"

Man, talk about ironic! :^D



72/73/oo

Rob, kc0bom

ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPP-I #19

-----

Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 --- MSN - jimrob@jetnetinc.net

Y! - kc0bom --- ICQ - 114690148

-----

Date: Wed, 06 Mar 2002 17:47:17 -0500

From: Bruce Muscolino <w6toy@erols.com>

To: john@wagner-usa.net

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [121449] Re: Pc Boards Got em ! but No Knowledge

Message-ID: <3C869C75.37A7D907@erols.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

John,

Building on a PC board is one cut above other methods. It is stronger and sturdier. Perf board comes in a close second, and manhattan is probably the worst.

With manhattan construction you always have the possibility that your pads will come loose and your circuit won't work!

{Perf board is stronger, but you may still have problems with interconnections.

A well designed circuit board solves most of these problems, even a run of one is neater with nothing to come loose!

Now if you take speed of construction into account, manhattan is probably first, perf board is second, and PC boards come in third!

73

-----

Date: Wed, 6 Mar 2002 14:55:18 -0800

From: "Kory Hamzeh" <kory@avatar.com>

To: <john@wagner-usa.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [121450] RE: Pc Boards Got em ! but No Knowledge  
Message-ID: <002501c1c561\$fcfb1ee0\$14ce21c7@avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> -----Original Message-----  
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> John Wagner  
> Sent: Wednesday, March 06, 2002 2:24 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Re: Pc Boards Got em ! but No Knowledge  
>  
>  
> Why would a hobbyist like myself want to etch a board?  
>

I have found Manhattan style to be a pain in the rear when it comes to IC's.  
There is are clever ways around this, I'm open to learning about them.

73,  
Kory  
AC6RN

-----  
Date: Wed, 06 Mar 2002 18:09:03 -0500  
From: John Wagner <john@wagner-usa.net>  
To: Kory Hamzeh <kory@avatar.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [121451] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <B8AC0BBE.703%john@wagner-usa.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

There are clever ways for working with IC's. See my website at;

<http://www.qsl.net/kb1ens/sw30/sw30mh.html>

in particular, these images;

<http://www.qsl.net/kb1ens/sw30/ic-pad-cut-1.jpg>  
<http://www.qsl.net/kb1ens/sw30/ic-pad-cut-2.jpg>

Making IC pads takes a bit of time, but with practice you can knock 'em out pretty fast.

I'm also starting to work with SMD's using Surface Mount Pads. See;

<http://www.qsl.net/kb1ens/smp/>

for info on that.

73,

John, N1QO

>  
> I have found Manhattan style to be a pain in the rear when it comes to IC's.  
> There is are clever ways around this, I'm open to learning about them.  
>  
> 73,  
> Kory  
> AC6RN  
>  
>

-----

Date: Wed, 06 Mar 2002 18:15:56 -0500  
From: John Wagner <[john@wagner-usa.net](mailto:john@wagner-usa.net)>  
To: <[w6toy@erols.com](mailto:w6toy@erols.com)>,  
Low Power Amateur Radio Discussion <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [121452] Re: Pc Boards Got em ! but No Knowledge  
Message-ID: <B8AC0D5B.705%[john@wagner-usa.net](mailto:john@wagner-usa.net)>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

I have to disagree with you about Manhattan style not being as robust a method of construction. Well, not completely, I will concede that it's probably not AS robust as a PC board - but - it's not weak by any means. I have had pads come up, but as long as everything is soldered together it's not a problem. I've also had the copper foil lift off, but again, as long as it's all soldered together the circuit works fine.

On the opposite side of the coin, when I built my K-1 one of the channels under the crystal came loose and the through-hole connection was iffy, which

caused the radio not to function correctly. I ended up having to send the radio in to be fixed as I couldn't figure out the problem (it looked fine!).

73,

John, N1Q0

> From: Bruce Muscolino <w6toy@erols.com>  
> Reply-To: w6toy@erols.com  
> Date: Wed, 06 Mar 2002 17:47:17 -0500  
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
> Subject: Re: Pc Boards Got em ! but No Knowledge  
>  
> John,  
>  
> Building on a PC board is one cut above other methods. It is stronger  
> and sturdier. Perf board comes in a close second, and manhattan is  
> probably the worst.  
>  
> With manhattan construction you always have the possibility that your  
> pads will come loose and your circuit won't work!  
>  
> {Perf board is stronger, but you may still have problems with  
> interconnections.  
>  
> A well designed circuit board solves most of these problems, even a run  
> of one is neater with nothing to come loose!  
>  
> Now if you take speed of construction into account, manhattan is  
> probably first, perf board is second, and PC boards come in third!  
>  
> 73  
>

-----  
Date: Wed, 06 Mar 2002 18:24:04 -0500  
From: Dave Richards <wr3i@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>, plburbank@kih.net  
Subject: [121453] Re: PCB etchant  
Message-ID: <R0E90M4Z2175T096XU82F42MIEB7YW.3c86a514@sony>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hmm Interesting...Where does one get carbon rods these days?  
Dave

W1QB

3/6/2002 2:41:23 PM, Pete Burbank <plburbank@kih.net> wrote:

>I'm not a chemist but do enjoy experimenting. I thought the ferric chloride  
>could be  
>reclaimed by reversing the process so after etching a couple boards I put  
>the solution  
>in a plastic container, connected a (12v) one Amp trickle battery charger  
>to 2 carbon rods  
>and ran a current through the solution for a few hours. One carbon rod had  
>a glob of copper  
>on it at the end of the experiment. No way to weigh it but it looked like about  
>the same amount that was etched off the boards. The ferric chloride was quite  
>vigorous when I inserted a test piece of scrap PCB.  
>In terms of measurement it was truly an amateur experiment but it is better  
>than  
>dumping the etchant. My etchant is back in the bottle and ready for making  
>another board.  
>This is the sort of experiment that is best conducted outdoors on a warm  
>day. :-)  
>Perhaps others have tried this and I'm open to any comments.  
>73  
>Pete NV4V  
>  
>

-----  
Date: Wed, 6 Mar 2002 16:26:03 -0700  
From: Majority Mike Capt 56 TRS/IP <mike.majority@luke.af.mil>  
To: qrp-1@Lehigh.EDU  
Subject: [121454] New project tins?  
Message-ID: <0E40283AC63B084C93998F599C1217687E3B1B@FSNUEX06.luke.af.mil>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Just got a new offer from AOL, the CD came in a little metal tin about  
6"Lx6"Wx1/4" high. No hinges, just a snap-on cover. And it was free (arrived  
in the mail last night). Might make a good box for a small surface-mount  
project (will have to be built horizontal vs vertical). Hmm, still have an  
unbuilt Pixie2. Will probably need an external battery unless I can find a  
flat-style battery (like the old Polaroid film packs had). Otherwise the  
sides MAY work for the small jacks for key, phones, battery, etc.

Disclaimer - Not endorsing AOL, not sure if it'll work, not sure of the meaning of life (but have the Monty Python video). Just plan on having fun with the new project box and enjoying QRP.

72,  
Mike, N4VBV

-----  
End of QRP-L Digest 2486

\*\*\*\*\*  
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